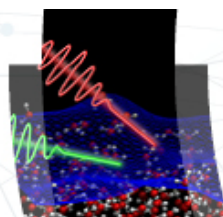


# Water at Interfaces

20-22 September 2023 | London, UK  
and online



## Faraday Discussions

**20 September 2023 (all timings are BST)**

11:30	Registration and refreshments
12:00	Lunch
12:45	<b>Welcome and introductions</b> Mischa Bonn, <i>Chair of Scientific Committee</i>
12:55	<b>Outline of Discussion format</b> TBC, <i>Royal Society of Chemistry Publishing</i>
13:00	<b>Introductory Lecture (Spiers Memorial Lecture)</b> (Session Chairs: TBC) Rich Saykally <i>University of Berkeley, USA</i>
14:00	Comfort break (no refreshments)
	<b>Session 1: Ice interfaces</b> (Session chairs: TBC)
14:15	<b>TBC</b> Ying Jiang <i>Peking University, China</i>
14:20	<b>Rapid sampling of monolayer ice phases in nanoscale confinement</b> Venkat Kapil <i>University of Cambridge, UK</i>
14:25	<b>Hydrophobic hydration of the adamantane hydrocarbon</b> Christoph Salzmann <i>University College London, UK</i>
14:30	Discussion
15:45	Afternoon tea
	<b>Session 1 continued: Ice interfaces</b> (Session chairs: TBC)
16:15	<b>TBC</b> Ulrike Diebold <i>TU Wien, Austria</i>
16:20	<b>Development of a first-principles machine-learning model for heterogeneous ice nucleation on microcline feldspar</b> Pablo Piaggi <i>Princeton University, USA</i>
16:25	<b>Understanding the impact of ions on heterogeneous ice nucleation</b> Katarina Blow <i>University of Warwick, UK</i>
16:30	<b>Discussion</b>
17:45	Flash poster presentations
18:00	Poster session and wine reception
19:00	End of day

21 September 2023 (all timings are BST)

	<b>Session 2: Dynamics and nano-rheology of interfacial water</b> (Session Chairs: TBC)
09:00	<b>TBC</b> <u>Nikita Kavokine</u> <i>Flatiron Institute, USA</i>
09:05	<b>Ab initio spectroscopy of water under nanoconfinement</b> <u>Ding Pan</u> <i>Hong Kong University of Science and Technology, Hong Kong</i>
09:10	<b>Interfacial water in ion-selective transport proteins</b> <u>Susan Rempe</u> <i>Sandia National Labs, USA</i>
09:15	Discussion
10:30	Morning coffee
	<b>Session 2 continued: Dynamics and nano-rheology of interfacial water</b> (Session Chairs: TBC)
11:00	<b>TBC</b> <u>Stephen Cox</u> <i>University of Cambridge, UK</i>
11:05	<b>Mapping the temperature-dependent and network-site-specific onset of spectral diffusion at the surface of a water cluster cage</b> <u>Mark Johnson</u> <i>Yale University, USA</i>
11:10	<b>Convergence of dissolving and melting at the nanoscale</b> <u>Yafang Cheng</u> <i>Max Planck Institute for Chemistry, Germany</i>
11:15	Discussion
12:30	Lunch
	<b>Session 3: Electrified/charged aqueous interfaces</b> (Session Chairs: TBC)
13:30	<b>TBC</b> <u>Adam Willard</u> <i>Massachusetts Institute of Technology, USA</i>
14:05	<b>Water reorientation and translation dynamics at electrode/aqueous electrolyte interfaces</b> <u>Damien Laage</u> <i>Ecole Normale Supérieure, France</i>
14:10	<b>Direct probe of electrochemical pseudocapacitive pH jump at a graphene electrode</b> <u>Yongkang Wang</u> <i>Max Plank Institute for Polymer Research, Germany</i>
14:15	Discussion
15:00	Afternoon Tea
	<b>Session 3 continued: Electrified/charged aqueous interfaces</b> (Session Chairs: TBC)
15:30	<b>TBC</b> <u>Ellen Backus</u> <i>University of Vienna, Austria</i>
15:35	<b>Surface charge effects on solution structure and dynamics, ion adsorption and non-idealities in the double layer</b> <u>Aaron Finney</u> <i>University College London, UK</i>
15:40	<b>Are ASAXS and SANS suitable to extract information on the role of water for electric double layer formation at the carbon - aqueous electrolyte interface?</b> <u>Malina Seyffertitz</u>

	<i>Montanuniversitaet Leoben, Austria</i>
15:45	Discussion
17:00	Close of sessions
19:00	Pre-dinner drinks – Burlington House
19:30	Conference dinner – Burlington House

**22 September 2023 (all timings are BST)**

	<b>Session 4: Soft matter-water interface</b> (Session chairs: TBC)
09:00	<b>TBC</b> <u>Monica Olvera de la Cruz</u> <i>Northwestern University, USA</i>
09:05	<b>Collective motion of Nafion-based micromotors in water</b> <u>Jordi Fraxedas</u> <i>ICN2-CSIC-BIST, Spain</i>
09:10	<b>How do water-mediated interactions and osmotic second virial coefficients vary with particle size?</b> <u>Kenichiro Koga</u> <i>Okayama University, Japan</i>
09:15	Discussion
10:30	Morning coffee
	<b>Session 4 continued: Soft matter-water interface</b> (Session chairs: TBC)
11:00	<b>TBC</b> <u>Uri Sivan</u> <i>Technion, Israel</i>
11:05	<b>Atomic-scale structure of interfacial water on gel and liquid phase lipid membranes</b> <u>Simone Benaglia</u> <i>University of Manchester, UK</i>
11:10	<b>Water-lipid interface in lipidic mesophases with excess water</b> <u>Yang Yao</u> <i>ETH Zurich, Switzerland</i>
11:15	Discussion
12:30	<b>Concluding Remarks Lecture</b> (Session Chair: TBC) Giulia Galli <i>University of Chicago, USA</i>
13:10	<b>Acknowledgements and poster prize presentation</b>
13:15	<b>Close of meeting and lunch</b>

Presenting authors are indicated in the programme by an underline. The affiliation is for the presenting author.