



Wednesday 1 May 2024

09:30	Registration and refreshments
10:20	<b>Welcome and introductions</b> Anouk Rijs, <i>Vrije Universiteit Amsterdam</i> Michael Rowan, <i>Royal Society of Chemistry</i>
	<b>Electrochemistry and materials</b> Session chair: Andrea Russel, <i>University of Southampton, UK and PCCP associate editor</i>
10:30	<b>Controlling Water Oxidation Pathways on Boron Doped Diamond Electrodes Through Control of Surface Chemistry</b> Julie MacPherson <i>University of Warwick, UK</i>
11:05	<b>Towards Understanding Catalysis at the Level of Single Particles, Molecules, and Atoms: Seeing is Believing?</b> Bert Weckhuysen <i>Utrecht University, Netherlands</i>
11:40	<b>From Energy to Sustainability: Studying Reactions at the Single Particle Scale</b> Christopher Batchelor-McAuley <i>Trinity College Dublin, Ireland</i>
12:15	Lunch
	<b>Theory, computation and simulation</b> Session chair: Chantal Daniel, <i>Institute of Chemistry, University of Strasbourg, France and PCCP associate editor</i>
13:30	<b>Modeling pump-probe spectroscopies from excited state dynamics</b> Spiridoula Matsika <i>Temple University, USA</i>
14:05	<b>Cracking the Code: A Computational Expedition into Neurodegenerative Proteins and Innovative Therapies</b> Ioana M. Ilie <i>University of Amsterdam, Netherlands</i>
14:40	<b>Paradigm Shifts in Chemical Theory</b> Matthias Bickelhaupt <i>Vrije Universiteit Amsterdam, Netherlands</i>
15:15	Refreshments
	<b>Biophysical processes and dynamics</b> Session chair: Anouk Rijs <i>Vrije Universiteit Amsterdam, The Netherlands and PCCP Chair</i>
15:45	<b>Single Molecule Manipulation and Imaging of complex DNA-protein interactions</b> Gijs Wuijte <i>Vrije Universiteit Amsterdam, Netherlands</i>
16:20	Flash poster presentations (by invitation of the scientific committee)  <b>Signatures of paracrystallinity in amorphous silicon</b> Louise A.M. Rosset <i>University of Oxford, UK</i>  <b>Unravelling the dynamics of the aggregation process of the Ac-PHF6-NH<sub>2</sub> tau segment</b> Iuliia Stroganova <i>Vrije Universiteit Amsterdam, Netherlands</i>
17:05	Poster session and wine reception
20:00	Close of day

PCCP 25th anniversary symposium

**New connections, exciting discussions  
and a chance to meet our Owner Societies**

**25**  
ANNIVERSARY

1–2 May 2024  
Amsterdam, Netherlands

Thursday 2 May 2024

08:30	Refreshments
	<b>Chemical physics, lasers, and spectroscopy</b> Session chair: Keith Gordon <i>University of Otago, New Zealand</i> and PCCP associate editor
09:00	<b>Laser Spectroscopy in the Service of Technology: From Ultrafast Single Particle Nanoplasmonics to Ultrasensitive Health Diagnostics</b> David Nesbitt <i>University of Colorado, Boulder, USA</i>
09:35	<b>Gas Phase Clusters as Model Systems for Solid “Single Site” Catalysts</b> Knut Asmis <i>University of Leipzig, Germany</i>
10:10	<b>Towards a hydrogen molecular ion clock</b> Max Beyer <i>Vrije Universiteit Amsterdam, Netherlands</i>
10:45	Refreshments
	<b>Machine learning: methods and discovery</b> Session chair: Alex Brown, <i>University of Alberta, Canada</i> and PCCP Ownership Board Chair
11:15	<b>Generating equilibrium structures for molecules: molecular dynamics, coarse-graining and deep learning</b> Frank Noe <i>Microsoft Research AI4Science, Germany</i>
11:50	<b>Data-driven interatomic potentials for materials chemistry</b> Volker Deringer <i>University of Oxford, UK</i>
12:25	Lunch
	<b>Nanotechnology and nanomaterials</b> Session chair: Prabal Maiti <i>Indian Institute of Science, India</i> and PCCP associate editor
13:30	<b>Highly processable graphene-based hybrid nanocomposites: unlocking the potential for enhanced photoconversion and sensing applications</b> Maria Lucia Curri <i>University of Bari, CNR, Italy</i>
14:05	<b>Optical modification of graphene</b> Mika Pettersson <i>University of Jyväskylä, Finland</i>
14:40	Poster prize announcement Closing remarks
15:15	Close of day