



**Tuesday 26 June**

11:00	Registration	
12:00	Lunch	
13:15	<b>Welcome and introductions</b> Yi-Tao Long and Frank Marken, <i>co-Chairs of Scientific Committee</i>	
13:25	<b>Outline of discussion format</b> Eve Rooks and Michael Spencelayh, <i>Royal Society of Chemistry Publishing Editors</i>	
13:30	<b>Introductory lecture</b> (Session Chair: Yi-Tao Long) <u>Henry S. White</u> <i>University of Utah, USA</i>	<b>Paper 18981</b>
	<b>Session 1a: Processes at nanopores and bio-nanointerfaces</b> (Session Chair: Lei Jiang)	
14:30	<b>Quantifying photothermal heating at plasmonic nanoparticles by scanning electrochemical microscopy</b> <u>Katherine Willets</u> , Yun Yu, Jeffrey Williams <i>Temple University, USA</i>	<b>Paper 18979</b>
14:35	Discussion of Paper 18979	
14:50	<b>Biomimetic ion channels formation by emulsion based on chemically modified cyclodextrin nanotubes</b> <u>Juan Pelta</u> , Laurent Bacri, Hajar Mamad-Hemouch, Cédric Przybylski, Bénédicte Thiebot, Gilles Patriarche, Nathalie Jarroux <i>LAMBE, Univ Evry, CNRS, Université Paris-Saclay, France</i>	<b>Paper 19554</b>
14:55	Discussion of Paper 19554	
15:10	General Discussion	
15:30	Afternoon tea	
	<b>Session 1b: Processes at nanopores and bio-nanointerfaces</b> (Session Chair: Lane A. Baker)	
16:00	<b>Probing ion current in solid-electrolytes at the meso- and nanoscale</b> <u>Zuzanna Siwy</u> , Joseph Martinez, David Ashby, Cheng Zhu, Bruce Dunn, Lane Baker <i>University of California, Irvine, USA</i>	<b>Paper 18982</b>
16:05	Discussion of Paper 18982	
16:20	<b>Unexpected ionic transport behavior on hydrophobic and uncharged conical nanopore</b> Sebastien Balme, Fabien Picaud, Mathilde Lepoitevin, Mikhael Bechelany, Emmanuel Balanzat, Jean-Marc Janot <i>Institut Européen des Membranes, CNRS, France</i>	<b>Paper 19542</b>
16:25	Discussion of Paper 19542	
16:40	<b>Measuring a frequency spectrum for the single-molecule interactions with a confined nanopore</b> <u>Yi-Lun Ying</u> , Shao-Chuang Liu, Meng-Xiao Li, Mengyin Li, Yaqian Wang, Yong-Jing Wan, Yi-Tao Long <i>East China University of Science and Technology, China</i>	<b>Paper 19533</b>
16:45	Discussion of Paper 19533	
17:00	General Discussion	
17:30	Lightning presentations (by invitation of the scientific committee)	
17:45	Poster Session (odd numbers)	

Wednesday 27 June

	<b>Session 1c: Processes at nanopores and bio-nanointerfaces</b> (Session Chair: Paul Bohn)	
09:00	<b>A Pb<sup>2+</sup> ionic gate with enhanced stability and improved sensitivity based on a 4'-aminobenzo-18-crown-6 modified funnel-shaped nanochannel</b> <i>Lei Jiang, Yongchao Qian, Zhen Zhang, Wei Chen, Liping Wen, Chinese Academy of Sciences, China</i>	<b>Paper 18984</b>
09:05	Discussion of Paper 18984	
09:20	<b>Investigation of modified nanopore arrays using FIB/SEM tomography</b> <i>Christine Kranz, Angelika Holzinger, Gregor Neusser, Benjamin Austen, Alonso Gamero-Quijano, Gregoire Herzog, Damien Arrigan, Andreas Ziegler, Paul Walther Ulm University, Germany</i>	<b>Paper 19550</b>
09:25	Discussion of Paper 19550	
09:40	<b>Real-time determination of aggregated alpha-synuclein induced membrane disruption at neuroblastoma cells using scanning ion conductance microscopy</b> <i>Yixian Wang, Stephanie Wong Su, Andy Chieng, Jacob Parres-Gold, Megan Chang California State University, Los Angeles, USA</i>	<b>Paper 19424</b>
09:45	Discussion of Paper 19424	
10:00	General Discussion	
10:30	Morning Tea	
	<b>Session 2: Processes at nanoelectrodes</b> (Session Chair: Patrick Unwin)	
11:00	<b>Electrochemistry at a single nanoparticle: from bipolar regime to tunnelling</b> <i>Michael Mirkin, Tong Sun, Dengchao Wang CUNY Queens College</i>	<b>Paper 18983</b>
11:05	Discussion of Paper 18983	
11:20	<b>Single Ag nanoparticle collisions within a dual-electrode micro-gap cell</b> <i>Kim McKelvey, Donald Robinson, Nicholas Vitti, Martin Edwards, Henry White Trinity College Dublin, the University of Dublin, Ireland</i>	<b>Paper 19585</b>
11:25	Discussion of Paper 19585	
11:40	<b>Functionalised microscale nanoband edge electrode (MNEE) arrays; the systematic quantitative study of hydrogels grown on nanoelectrode biosensor arrays for enhanced sensing in biological</b> <i>Andrew Mount, Andrew Piper, Ben Alston, Dave Adams The University of Edinburgh, UK</i>	<b>Paper 19613</b>
11:45	Discussion of Paper 19613	
12:00	<b>Effects of the dipolar double layer on elemental electrode processes at micro- and macro-interfaces</b> <i>Jingyuan Chen and Koichi Aoki University of Fukui, Japan</i>	<b>Paper 19230</b>
12:05	Discussion of Paper 19230	
12:20	General Discussion	
13:00	Lunch	
	<b>Session 3a: Energy conversion at nanointerfaces</b> (Session Chair: Shelley Minteer)	
14:30	<b>Shape-controlled electrodeposition of single Pt nanocrystals onto carbon nanoelectrodes</b> <i>Richard Crooks, Ke Huang, Jan Clausmeyer, Long Luo, Karalee Jarvis</i>	<b>Paper 18985</b>

	<i>University of Texas at Austin, USA</i>	
14:35	Discussion of Paper 18985	
14:50	<b>Illuminating nanostructured gold electrode: surface plasmon or electron ejection?</b> <u>Dongping Zhan</u> , Di Huang, Quanfeng He, Jiejie Shan, Matthew Sartin, Ran Pang, Fang-Zu Yang, Yongliang Zhou, Bin Ren, Zhong-qun Tian <i>Xiamen University, China</i>	<b>Paper 19415</b>
14:55	Discussion of Paper 19415	
15:10	<b>Ligament size-dependent electrocatalytic activity of nanoporous Ag network for CO<sub>2</sub> reduction</b> <u>Chuan Zhao</u> , Wanfeng Yang, Wensheng Ma, Zhonghua Zhang <i>The University of New South Wales, Australia</i>	<b>Paper 19564</b>
15:15	Discussion of Paper 19564	
15:30	General Discussion	
16:00	Afternoon Tea	
	<b>Session 3b: Energy conversion at nanointerfaces</b> (Session Chair: Frank Marken)	
16:30	<b>Hydrogen adsorption on nano-structured platinum</b> <u>Marc Koper</u> , Oscar Diaz-Morales, Thomas Hersbach, Cansin Badan, Amanda Garcia <i>Leiden University, The Netherlands</i>	<b>Paper 18987</b>
16:35	Discussion of Paper 18987	
16:50	<b>Evaluation of the intrinsic catalytic activity of nanoparticles without prior knowledge of the mass loading</b> <u>Wolfgang Schuhmann</u> , Tobias Löffler, Patrick Wilde, Denis Oehl, Yen-Ting Chen, Kristina Tschulik <i>Ruhr-Universität Bochum, Germany</i>	<b>Paper 19414</b>
16:55	Discussion of Paper 19414	
17:10	General Discussion	
17:30	Lightning presentations (by invitation of the scientific committee)	
17:45	Poster session (even numbers)	
19:00	Conference Dinner	

Thursday 28 June

	<b>Session 4a: Dynamics of nanointerfaces</b> (Session Chair: Zhong-Qun Tian)	
09:00	<b>Electrochemical quantification of transmitter concentration in single nanoscale vesicles isolated from PC12 cells</b> <u>Andrew Ewing</u> , <u>Xianchan Li</u> , <u>Johan Dunevall</u> <i>University of Gothenburg, Sweden</i>	<b>Paper 18986</b>
09:05	Discussion of Paper 18986	
09:20	<b>Nanoscale electrochemical movies and synchronous topographical mapping of electrocatalytic materials</b> <u>P. Unwin</u> , <u>Cameron Bentley</u> <i>University of Warwick, UK</i>	<b>Paper 18988</b>
09:25	Discussion of Paper 18988	
09:40	<b>The promise of antireflective gold electrodes for optically monitoring the electrodeposition of single silver nanoparticles</b> <u>Frederic Kanoufi</u> , <u>Jean-François Lemineur</u> , <u>Jean-Marc Noël</u> , <u>Catherine Combellas</u> , <u>Dominique Ausserré</u> <i>Université Paris Diderot, France</i>	<b>Paper 19607</b>
09:45	Discussion of Paper 19607	
10:00	General Discussion	
10:30	Morning Tea	
	<b>Session 4b: Dynamics of nanointerfaces</b> (Session Chair: Henry S. White)	
11:00	<b>Charge transport at a molecular GaAs nanoscale junction</b> <u>Richard Nichols</u> , <u>Andrea Vezzoli</u> , <u>Richard Brooke</u> , <u>Nicoló Ferri</u> , <u>Carly Brooke</u> , <u>Simon Higgins</u> , <u>Walther Schwarzacher</u> <i>University of Bristol, UK</i>	<b>Paper 19523</b>
11:05	Discussion of Paper 19523	
11:20	<b>A study of dynamic nanoscale corrosion initiation events using HS-AFM</b> <u>Stacy Moore</u> , <u>Robert Burrows</u> , <u>Loren Picco</u> , <u>Tomas Martin</u> , <u>Scott Greenwell</u> , <u>Thomas Scott</u> , <u>Oliver Payton</u> <i>University of Bristol, UK</i>	<b>Paper 19603</b>
11:25	Discussion of Paper 19603	
11:40	<b>Real-time <i>in situ</i> dynamic sub-surface imaging of multi-component electrodeposited films using event mode neutron reflectivity</b> <u>Robert Hillman</u> , <u>Robert Barker</u> , <u>Robert Dalglish</u> , <u>Virgínia Ferreira</u> , <u>Emma Palin</u> , <u>Rachel Sapstead</u> , <u>Emma Smith</u> , <u>Nina-Juliane Steinke</u> , <u>Karl Ryder</u> , <u>Andrew Ballantyne</u> <i>University of Leicester, UK</i>	<b>Paper 19619</b>
11:45	Discussion of Paper 19619	
12:00	General Discussion	
12:30	<b>Concluding remarks lecture</b> (Session Chair: Frank Marken) <u>Paul Bohn</u> <i>University of Notre Dame, USA</i>	
13:15	<b>Acknowledgements</b>	
13:20	<b>Close of meeting</b>	

Presenting authors are indicated in the programme by an underline. The affiliation is for the presenting author. If the presenting author of your paper has changed since abstract selection please email [events@rsc.org](mailto:events@rsc.org). Please note that this is a draft programme and timings may change.