



Sunday 17 August

15:00	Registration, Tea and Coffee
16.45	Welcome and Introductions
	Session 1: Characterisation and preparation - new materials (1) Session Chair: Dirk Guld, <i>Friedrich-Alexander-University Erlangen / Nürnberg, Germany</i>
17:00	PLENARY: Building with artificial atoms: Programming the assembly of multi-functional nanocrystal thin films through precise control of particle size and shape Christopher B. Murray <i>University of Pennsylvania, Philadelphia, USA</i>
17:45	CONTRIBUTING: Metal Chalcogenides for Plasmonics Andrea Tao <i>UC San Diego, USA</i>
18:10	PLENARY: Easynanofab: fast, simple, combinatorial routes to metallic and polymeric nanostructures over macroscopic areas Graham Leggett <i>University of Sheffield, UK</i>
18:55	Close of Sessions
19.00	Welcome Reception
20:30	Close

Monday 18 August

08:00	Registration, Tea and Coffee
	Session 2: Programmable Materials/Self Assembly Session Chair: Haw Yang, <i>Princeton University, USA</i>
09.00	PLENARY: Layer-by-Layer Assembled Particles: Prospects and Challenges Frank Caruso <i>University of Melbourne, Australia</i>
09:45	CONTRIBUTING: Molecular Behavior in Small Spaces Julius Rebek, Jr. <i>The Scripps Research Institute, USA</i>
10:10	PLENARY: Tricking Nature: Generating Complex Nanoscale Patterns through Bottom-up Self-Assembly Craig Hawker <i>University of California, Santa Barbara, USA</i>
10:55	Coffee Break

11:25	PLENARY: Targeted Chemo- and Molecular-Therapy by Self-Assembled Supramolecular Nanosystems from Functionalized Block Copolymers Kazunori Katoaka <i>The University of Tokyo, Japan</i>
	Session 3: Energy and Catalysis Session Chair: Xiaodong Chen, <i>Nanyang Technological University, Singapore</i>
12:10	PLENARY: Understanding and Directing Nanocrystal Growth and Assembly Luis Liz-Marzan <i>CIC biomaGUNE, Donostia-San Sebastián, Spain</i>
12:55	Lunch
13:55	BBC World Service Panel Discussion
15:10	Coffee Break
15:30	PLENARY: Wet Chemically Functionalized Graphene For Solar Energy Conversion Schemes Dirk M. Guldi <i>Friedrich-Alexander-University Erlangen / Nürnberg, Germany</i>
16:15	CONTRIBUTING: Polymer-Nanocrystal Heteromaterial Frameworks: a Platform to Understand Mesoscale Transport Phenomena in Solid-State Electrochemical Devices Brett Helms <i>Lawrence Berkeley National Laboratory, USA</i>
16:40	CONTRIBUTING: Mechanical properties of solid films of optoelectronic nanowires and nanocrystals for solar energy conversion Darren Lipomi <i>University of California, San Diego, USA</i>
17:05	CONTRIBUTING: Nanostructures Carbon nitride and other C/N-materials for Artificial Photosynthesis, as heterogeneous Organocatalysts, and for Energy Applications Markus Antonietti <i>MPI-KGF, Germany</i>
17:30	Poster Session and Wine Reception
19:30	Close of Sessions

Tuesday 19 August

	Session 4: Nanomedicine/Bionanotechnology (1) Session Chair: Nathan Gianneschi, <i>University of California, San Diego, USA</i>
09:00	PLENARY: Spherical Nucleic Acids as Programmable Atom Equivalents: Constructing a New "Table of Elements" Chad A. Mirkin <i>Northwestern University, Chicago, USA</i>
09:45	CONTRIBUTING: Nucleic Acid Polymer Conjugates & Hybrids Subha Das

	<i>Carnegie Mellon University, USA</i>
10:10	PLENARY: Ultrasensitive Biomolecular Detection using Nanostructured Sensors Shana Kelley <i>University of Toronto, Canada</i>
10:55	Coffee Break
	Session 5: Characterisation and preparation - new materials (2) Session Chair: Graham Leggett, <i>University of Sheffield, UK</i>
11:25	PLENARY: Synthesis and Applications of Novel Two-Dimensional Nanomaterials Hua Zhang <i>Nanyang Technological University, Singapore</i>
12:10	CONTRIBUTING: Multicomponent Low Molecular Weight Hydrogels Dave Adams <i>University of Liverpool, UK</i>
12:55	PLENARY: Semiconductor Nanowires for Energy Conversion Peidong Yang <i>University of California, Berkeley, USA</i>
13:40	Lunch
	Session 6: Nanomedicine/Bionanotechnology (2) Session Chair: Vince Rotello, <i>University of Massachusetts Amherst, USA</i>
14:40	PLENARY: The heterogeneous local temperature inside living cells: nano thermometers, the delivery, and 3D multi-resolution visualization Haw Yang <i>Princeton University, USA</i>
15:25	CONTRIBUTING: Biomolecule-Mediated Nanodroplet Fusion for In-Solution Sensing Andrew Goodwin <i>University of Colorado, USA</i>
15:50	PLENARY: Molecular DNA devices in Living Systems. Yamuna Krishnan <i>National Centre for Biological Sciences, TIFR, Bangalore, India</i>
16:35	Coffee Break
17:05	PLENARY: Nanomechanical mapping of cellular migration Xiadong Chen <i>Nanyang Technological University, Singapore</i>
17:50	Poster Session and Royal Society of Chemistry Membership Reception
20:00	Close of Sessions

Wednesday 20 August

	Session 7: Nanomedicine/Bionanotechnology (3) Session Chair: Akif Tezcan, <i>University of California, San Diego, USA</i>
09:00	PLENARY: Gold Nanoparticles in Biomedicine: Delivery and Sensing Vince Rotello <i>University of Massachusetts Amherst, USA</i>
09:45	CONTRIBUTING: Biological Self-Assembly through Strong Bonds Akif Tezcan <i>University of California, San Diego, USA</i>

10:10	Coffee Break
10:20	PLENARY: Silicon Nanoparticles in Biology Michael J Sailor <i>University of California, San Diego, USA</i>
11:05	CONTRIBUTING: Cellular nanotechnology: making biological interfaces smarter Paula Mendes <i>University of Birmingham, UK</i>
11:30	Closing Remarks