

# Challenges in Organic Materials & Supramolecular Chemistry (ISACS10)

## Programme



### Updated Programme

Thursday 20th June 2013

09:00	Coffee
<b>Session 4: Sensing and Imaging</b> (Chair: Professor Philip Gale)	
09:30 PL09	<b>PLENARY: Molecular imaging approaches to mapping and studying chemistry in the brain</b> Professor Christopher J. Chang <i>University of California, Berkeley, USA</i>
10:15 O05	<b>CONTRIBUTED: Self-assembled photonic crystal core-shell nanoparticles: application in cross-reactive sensors</b> Professor Pavel Anzenbacher Jr. <i>Bowling Green State University, USA</i>
10:40 PL10	<b>PLENARY: From discrete molecules to supramolecular assemblies – an interplay of electrostatics, <math>\pi</math>-<math>\pi</math> stacking and metal-metal interactions</b> Professor Vivian W. W. Yam <i>The University of Hong Kong, Hong Kong</i>
11:25	Coffee
11:50 PL11	<b>PLENARY: Supramolecular approaches for rapid analysis of EE</b> Professor Eric Anslyn <i>University of Texas at Austin, USA</i>
12:35 INV05	<b>INVITED: Exploiting the reversible covalent bonding of boronic acids: recognition, sensing and assembly</b> Professor Tony D. James <i>University of Bath, UK</i>
13:00-13:25 O06	<b>CONTRIBUTED: Novel fluorescent glycolipid probe for single molecule imaging of mesoscale domain in living cell membrane</b> Professor Hiromune Ando*, Naoko Komura, Kenichi G. N. Suzuki, Rahul Chadda, Hisae Tsuboi, Taisuke Ikeda, Kenji Tanaka, Hideharu Ishida, Akihiro Kusumi and Makoto Kiso <i>Gifu University and Kyoto University, Japan</i>
13:30	Lunch
15:00	Posters
17:00	Close
19:00	Banquet (ticket holders only)

Friday 21st June 2013

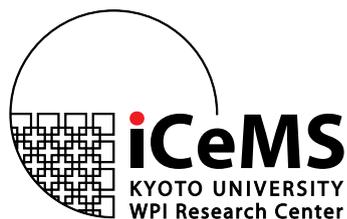
09:00	Coffee
<b>Session 5: Organic Materials</b> (Chair: Dr Stephen Goldup)	
09:30 PL12	<b>PLENARY: Enzyme-directed assembly of nanoparticles in tumors</b> Professor Nathan C. Gianneschi*, Miao-Ping Chien, David Hall and Matthew Thompson <i>University of California, San Diego, USA</i>
10:15 O07	<b>CONTRIBUTED: The synthesis of applications on hexacene and its derivatives</b> Motonori Watanabe and Professor Tahsin J. Chow* <i>Academia Sinica, Taiwan</i>
10:40 O08 (O04 in abstract book)	<b>CONTRIBUTED: An efficient chiral auxiliary approach to mechanically planar chiral rotaxanes</b> Robert Bordoli and Dr Stephen Goldup* <i>Queen Mary, University of London, UK</i>
11:05	Coffee
11:30 O09	<b>CONTRIBUTED: Development of structured oligoethylene glycol analogues with geometrical diversity</b> Professor Kazushi Kinbara*, Takahiro Muraoka, Kota Adachi, Mihoko Ui, Shunichi Kawasaki, Nabanita Sadhukhan, Haruki Obara, Michel Lagurre, Hidehito Tochio and Masahiro Shirakawa <i>Tohoku University, Japan</i>
11:55 PL13	<b>PLENARY: Macroscopic self-assembly and self-healing through molecular recognition</b> Professor Akira Harada <i>Osaka University, Japan</i>
12:40	Closing Remarks
13:10	Close of conference

\* Denotes presenting author

This document includes all programme updates up to and including Friday 24<sup>th</sup> May.

Please check the screen in the theatre for any late programme alterations.

The RSC would like to thank the following organisations for their co-sponsorship support in organising and promoting the conference.



Institute for Integrated Cell-Material Sciences, Kyoto University



The Chemical Society of Japan

## Updated Programme

### Tuesday 18th June 2013

13:00	Registration
14:30	Opening Remarks
<b>Session 1: Porous Materials</b> (Chair: Professor Susumu Kitagawa)	
15:00 PL01	<b>PLENARY: Functional organic solids - design or discovery?</b> Professor Andrew Cooper* and Graeme M. Day <i>University of Liverpool, UK</i>
15:45 INV01	<b>INVITED: Colloidal assembly and matrix-assisted growth of metal-organic frameworks</b> Dr Darren Bradshaw*, Jia Huo and Ashesh Garai <i>University of Southampton, UK</i>
16:10 O01	<b>CONTRIBUTED: Gated molecular encapsulation and reactivity</b> Professor Jovica D. Badjic <i>The Ohio State University, USA</i>
16:35 INV02	<b>INVITED: Mesoscale materials of coordination frameworks</b> Professor Shuhei Furukawa <i>Kyoto University, Japan</i>
17:00 - 17:45 PL02 (PL04 in abstract book)	<b>PLENARY: Networking complex chemical systems</b> Professor Lee Cronin <i>University of Glasgow, UK</i>
18:00	Welcome Reception
20:00	Close

### Wednesday 19th June 2013

09:00	Coffee
<b>Session 2: Self-Assembled Materials</b> (Chair: Professor Nathan Gianneschi)	
09:30 PL03	<b>PLENARY: Presentation title TBC</b> Professor Makoto Fujita <i>The University of Tokyo, Japan</i>
10:15 O02	<b>CONTRIBUTED: Supermolecular assemblies of designed ionic species</b> Professor Hiromitsu Maeda <i>Ritsumeikan University, Japan</i>

10:40 O03	<b>CONTRIBUTED: Cooperative supramolecular polymerization driven by metallophilic interactions and self-sorting processes</b> Dr Gustavo Fernandez*, Maria Jose Mayoral, Christina Rest and Vladimir Stepanenko <i>Universität Würzburg, Germany</i>
11:05	Coffee
11:30 INV03	<b>INVITED: Non-covalent nanostructures with functional <math>\pi</math>-systems</b> Professor Takanori Fukushima <i>Tokyo Institute of Technology, Japan</i>
11:55 PL04 (PL02 in abstract book)	<b>PLENARY: Metal organic frameworks for clean energy applications</b> Dr George K. H. Shimizu <i>University of Calgary, Canada</i>
12:40	Lunch
13:45 PL05	<b>PLENARY: Playing with molecular rings and strings</b> Professor Alberto Credi*, Serena Silvi and Margherita Venturi <i>Università di Bologna, Italy</i>
14:30 PL06	<b>PLENARY: Cucurbiturils at the interface between supramolecular chemistry and materials science</b> Dr Oren A. Scherman <i>University of Cambridge, UK</i>
15:15	Coffee
<b>Session 3: Medicinal and Chemical Biology Aspects of Supramolecular Chemistry</b> (Chair: Professor Thorri Gunnlaugsson)	
15:40 PL07	<b>PLENARY: Metal-templated supramolecular design directed toward functional array, space and motion</b> Professor Mitsuhiko Shionoya <i>The University of Tokyo, Japan</i>
16:25 INV04	<b>INVITED: Cell function analysis and control by on-cell supramolecular chemistry</b> Professor Shinsuke Sando* and Takeshi Tokunaga <i>Kyushu University, Japan</i>
16:50 - 17:35 PL08	<b>PLENARY: Self-assembled multivalency – the power of many applied in nanomedicine</b> Professor David K. Smith <i>University of York, UK</i>
17:45	Posters
19:30	Close