

Programme

Sunday 3 July 2011

Registration

11:00 Sports Hall 1

Introductions

13:30 Chichester Lecture Theatre

Oral session

13:45 Chichester Lecture Theatre

Chair: David Smith, *University of York, UK*

- K01 One-step hierarchical molecular ordering of polymer brush by hot pressing
13:45 Takuzo Aida^{1,2}, Nobuhiko Hosono¹, Takashi Kajitani², Takanori Fukushima²
¹The University of Tokyo, Japan, ²Riken, Wako, Japan
- K02 BF₂-Tetraarylazadipyrromethene Based *in vivo* Fluorescence Imaging Platforms
14:15 Donal O'Shea
University College Dublin, Ireland
- K03 Gas-Phase Supramolecular Chemistry
14:45 Christoph Schalley
Freie Universität, Berlin, Germany
- K04 Dynamic nano-assembly for labeling native protein
15:15 Itaru Hamachi
Kyoto University, Japan

Tea/coffee

15:45 Sports Hall 1

Oral session

16:15 Chichester Lecture Theatre

Chair: Pavel Anzenbacher, *Bowling Green State University, USA*

- K05 Designing complexity and function within self-assembled chemical systems: new
16:15 capsules and chemistry inside
Jonathan Nitschke
University of Cambridge, UK
- K06 Systems Chemistry: From Recognition to Self-Replication in Dynamic Molecular
16:45 Networks
Sijbren Otto
University of Groningen, The Netherlands
- K07 Construction of complex nanostructures using orthogonal chemical interactions
17:15 Kay Severin
EPFL, Lausanne, Switzerland
- FP245 Hydrogen-Bond-Directed Supramolecular Modulation of Functional Dyes
17:45 Shiki Yagai
Chiba University, Japan
- FP57 Dissipative self-assembly using chemical fuels
17:55 Rienk Eelkema, Job Boekhoven, Jan van Esch
Delft University of Technology, The Netherlands

- FP162 Finite Molecular Architectures *via* Metal-Ligand Coordination Towards Fluorescent
18:05 Sensors for the Detection of Explosives
Partha Sarathi Mukherjee
Indian Institute of Science, Bangalore, India
- FP192 Controlling the Formation of Circular Helicates
18:15 *Craig Rice*
University of Huddersfield, UK
- FP193 Porphyrinic Multirotaxanes: Towards a Molecular Press
18:25 *Cécile Roche*^{1,2}, *Nathan Strutt*³, *Angélique Sour*¹, *Jean-Pierre Sauvage*¹, *Maxwell Crossley*²
¹Université de Strasbourg, France, ²The University of Sydney, Australia, ³Northwestern University, USA
- FP124 Sensing of biologically and environmentally relevant metal cations using
18:35 lanthanide-based luminescent displacement assays in aqueous solution
Oxana Kotova, Steve Comby, Thorfinnur Gunnlaugsson
Trinity College Dublin, Ireland

Poster session A with wine reception

18:45 Sports Hall 1

Monday 4 July 2011

Oral session

09:00 Chichester Lecture Theatre

Chair: Michael Hardie, *University of Leeds, UK*

K08 Making the tiniest machines

09:00 David Leigh

University of Edinburgh, Edinburgh, UK

K09 Light on Molecular Machines: Thermodynamic and Kinetic Photocontrol of
09:30 Molecular Motions in Multicomponent Systems

*Tommaso Avellini, Massimo Baroncini, Monica Semeraro, Serena Silvi,
Margherita Venturi, Alberto Credi*

Universita' di Bologna, Italy

K10 In Control of Molecular Assembly & Motion

10:00 Ben Feringa

University of Groningen, The Netherlands

O01 Self-assembly of metal-containing shape-persistent macrocycles

10:30 Mark MacLachlan, *Peter Frischmann, Samuel Guieu*

University of British Columbia, Canada

Tea/coffee

10:50 Sports Hall 1

Oral session

11:20 Chichester Lecture Theatre

Chair: Andrew Wilson, *University of Leeds, UK*

K11 Luminescent Functional Supramolecules and Molecular Shuttles

11:20 He Tian

East China University of Science & Technology, China

FP222 From anion- to redox-sensitive gelators - improving our understanding of self-
11:50 assembled gels

Pall Thordarson

The University of New South Wales, Australia

FP46 Functional coordination cages: switchable guests, interpenetration, and ion
12:00 sensing

Guido Clever¹, *Mitsuhiko Shionoya*², *Anna Torras Galan*¹, *Martin Pawliczek*¹,
*Wataru Kawamura*²

¹*Georg-August-Universität Göttingen, Germany*, ²*The University of Tokyo, Japan*

FP109 Responsive "clickates" for chemo- and biosensing in vitro and in vivo.

12:10 *Mike Watkinson, Stephen Goldup, Kajally Jobe, Caroline Brennan*

Queen Mary, University of London, UK

FP161 Anion- π interactions in pentafluorophenyl ammonium and phosphonium salts

12:20 Michael Mueller¹, *Markus Albrecht*¹, *Arto Valkonen*², *Kari Rissanen*²

¹*RWTH Aachen University, Germany*, ²*University of Jyväskylä, Finland*

FP143 Oriented Salts: Dimension-Controlled Charge-by-Charge Assemblies from Planar
12:30 Receptor–Anion Complexes

Yohei Haketa, Hiromitsu Maeda

Ritsumeikan University, Japan

FP71 Anion-switchable supramolecular gels for controlling pharmaceutical crystal
12:40 growth
 Jonathan Foster, Jonathan Steed
 University of Durham, UK

Lunch

12:50 Sports Hall 1

Oral session

14:20 Chichester Lecture Theatre

Chair: Sally Brooker, *University of Otago, New Zealand*

K12 Anion Recognition Using Synthetic Peptides as Receptors

14:20 Katrina Jolliffe, Stephen Butler, Philip Young
 The University of Sydney, Australia

K13 Halogen Bonding: A New Paradigm in Supramolecular Chemistry

14:50 Pierangelo Metrangolo^{1,2}, Giuseppe Resnati^{1,2}, Tullio Pilati³, Giancarlo
 Terraneo^{1,2}, Gabriella Cavallo², Serena Biella^{1,2}
 ¹NFMLab-DCMIC, Politecnico di Milano, Italy, ²CNST-IIT@POLIMI, Italy, ³ISTM-
 CNR, Italy

K14 Self-assembled cage receptors for anion recognition and separation

15:20 Radu Custelcean
 Oak Ridge National Laboratory, USA

Tea/coffee

15:50 Sports Hall 1

Plenary lectures

16:20 Chichester Lecture Theatre

Chair: Thorri Gunnlaugsson, *Trinity College Dublin, Ireland*

Plen01 WINNER OF THE 2011 BOB HAY LECTURESHIP

16:20 The Power of Many - Hard Facts About Soft Matter
 David Smith
 University of York, UK

17:05 Chichester Lecture Theatre

Chair: Professor Roger Harrison, *Brigham Young University, USA*

Plen02 WINNER OF THE INAUGURAL CRAM LEHN PEDERSEN PRIZE

17:05 Binding and releasing anions with CH hydrogen-bonded receptors
 Amar Flood¹, Yuran Hua¹, Kevin McDonald¹, Semin Lee¹, Yong-jun Li²
 ¹Indiana University, USA, ²ICCAS, Beijing, China

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ChemComm

Close of session

17:50

Tuesday 5 July 2011

Oral session

09:00 Chichester Lecture Theatre

Chair: Eric Anslyn, *University of Texas at Austin, USA*

- K15 How Aromatic Interactions Control Your Genes: A Molecular View of Biomolecular
09:00 Recognition
 Marcey Waters, *UNC Chapel Hill, USA*
- K16 Development and Applications of Bioinspired Nanoscale Adhesion Agents -
09:30 Supramolecular Coupling Using DNA Base-Pair Analogues
 Steven Zimmerman, *Cyrus Anderson, Ying Li, Ellen Briggs*
 University of Illinois, USA
- K17 Three-Dimensional DNA Structures with Moving Parts: Loading and Selective
10:00 Release of Cargo for Biological and Materials Applications.
 Hanadi Sleiman, *McGill University, Canada*
- O02 DNA as a Supramolecular Scaffold for Functional Molecules
10:30 Eugen Stulz, *Jonathan Burns, Daniel Singleton, Ashley Brewer*
 University of Southampton, UK

Tea/coffee

10:50 Sports Hall 1

Oral session

11:20 Chichester Lecture Theatre

Chair: Zoe Pikramenou, *University of Birmingham, UK*

- K18 Macroscopic Self-Organization through Molecular Recognition
11:20 Akira Harada, *Ryo Kobayashi, Yoshinori Takashima, Akihito Hashidzume, Hiroyasu*
 Yamaguchi
 Osaka University, Japan
- O03 Boronic acid based receptors for carbohydrate and anion sensing
11:50 Tony James
 University of Bath, UK
- O04 Inhibition of protein-protein interactions using designed molecules
12:10 Andrew Wilson, *University of Leeds, UK*
- O05 Selective Anion Binding to Hydrophobic Pockets: A Major Facet of the Hofmeister
12:30 Effect?
 Bruce Gibb, *Haiying Gan, Corinne Gibb*
 University of New Orleans, USA

Lunch

12:50 Sports Hall 1

Social activities

- 14:00** Tours of the Royal Pavilion for those that have booked in advance and the
 opportunity to explore Brighton town centre.

Poster session B with ale tasting and “Best of British” buffet

17:30 Sports Hall 1

Wednesday 6 July 2011

Oral session

09:00 Chichester Lecture Theatre

Chair: Jonathan Sessler, *University of Texas at Austin, USA*

K19 Self-Organizing Sensors : Protein Recognition and Analysis

09:00 Pavel Anzenbacher
Bowling Green State University, USA

K20 Intelligent Fluorescent Chemosensors

09:30 Juyoung Yoon
Ewha Womans University, Republic of Korea

K21 Glowing rotaxanes: a new paradigm for optical imaging

10:00 Bradley Smith
University of Notre Dame, USA

Tea/coffee

10:30 Sports Hall 1

Oral session

11:00 Chichester Lecture Theatre

Chair: Makoto Fujita, *University of Tokyo, Japan*

K22 The Development and Applications of Differential Sensing Routines

11:00 Eric Anslyn
University of Texas, Austin, USA

K23 2011: A small space odyssey with luminescent molecules

11:30 AP de Silva
Queen's University, Belfast, UK

K24 Lanthanide coated nanoparticles as luminescent probes in imaging applications

12:00 Zoe Pikramenou
University of Birmingham, UK

Lunch

12:30 Sports Hall 1

Plenary lecture and oral session

14:00 Chichester Lecture Theatre

Chair: David Leigh, *University of Edinburgh, UK*

WINNER OF THE 2010 RSC SUPRAMOLECULAR CHEMISTRY AWARD

Plen03 Molecular Organisation: Working with Molecules on the Nanoscale

14:00 Neil Champness
University of Nottingham, UK

K25 Metal organic framework materials with dynamic components: MIMs in MOFs.

14:45 Stephen Loeb, V. Nicholas Vukotic, Kelong Zhu, Darren Mercer
University of Windsor, Canada

K26 Exploiting and Controlling Energy Transfer in Lanthanide Containing Arrays

15:15 Stephen Faulkner
University of Oxford, UK

Tea/coffee

15:45 Sports Hall 1

Oral session

16:15 Chichester Lecture Theatre

Chair: Lee Cronin, *University of Glasgow, UK*

O06 Self-assembly of light-harvesting antennae based on dendrimers

16:15 Paola Ceroni, *Giacomo Bergamini, Maria Elena Gallina*
University of Bologna, Italy

O07 Supramolecular Polymers Based on Threaded Structure Connections

16:35 Feihe Huang, *Feng Wang, Shengyi Dong, Zibin Zhang, Xuzhou Yan, Shijun Li*
Zhejiang University, China

Plenary lecture

16:55 Chichester Lecture Theatre

Chair: Reed Izatt, *Brigham Young University, USA*

Plen04 History of the ISMSC and the Izatt-Christensen Award

16:55 Reed Izatt
Brigham Young University, USA

WINNER OF THE 2011 IZATT-CHRISTENSEN AWARD

Plen04 Protein Surface Recognition: A Supramolecular Approach to Controlling

17:10 Biological Function
Andrew Hamilton
University of Oxford, UK

Conference photograph

17:55 Chichester Lecture Theatre steps

Conference banquet

19:00 Brighton Dome

The banquet will take place at the Brighton Dome, for those that have booked tickets in advance.

Thursday 7 July 2011

Oral session

09:00 Chichester Lecture Theatre

Chair: Eugen Stulz, *University of Southampton, UK*

K27 Programmable non-equilibrium Oxide-Materials for Redox-Solar-Cells

09:00 Lee Cronin

University of Glasgow, UK

K28 Fullerene-containing Nanostructures: Synthesis and Applications

09:30 Jean-Francois Nierengarten

CNRS - ECPM - UDS, Strasbourg, France

O08 Anion transport and anticancer activity relationships of small bioactive molecules

10:00 Daniel Moreno¹, Borja Diaz de Greñu¹, Paulina Iglesias Hernández², Tomas Torroba¹, Anatalia Araujo Javier², Ricardo Pérez-Tomás², Roberto Quesada¹

¹Universidad de Burgos, Spain, ²Universidad de Barcelona, Spain

O09 Anion Binding in Water with Use of a new Uranyl-salophen receptor

10:20 Antonella Dalla Cort¹, Gianpiero Forte¹, Luca Schiaffino²

¹Università La Sapienza, Italy, ²Università degli Studi di Tor Vergata, Italy

Tea/coffee

10:40 Sports Hall 1

Oral session

11:10 Chichester Lecture Theatre

Chair: Craig Rice, *University of Huddersfield, UK*

K29 Functionalized Calixpyrroles: From Recognition and Sensing to Self-assembly

11:10 Jonathan Sessler¹

¹The University of Texas, Austin, USA, ²Yonsei University, Republic of Korea

K30 Transmembrane ion transporters made from various natural products

11:40 Jeffery Davis, Soheila Bahmanjah, Ning Zhang, William Harrell

University of Maryland, USA

K31 Molecular and Solid State Self-assembly Based on Weak Supramolecular Interactions

12:10 Kari Rissanen

University of Jyväskylä, Finland

Lunch

12:40 Sports Hall 1

Oral session followed by closing remarks

14:00 Chichester Lecture Theatre

Chair: Jim Tucker, *University of Birmingham, UK*

O10 Controlled assembly of functional five fold symmetry molecular capsules

14:00 Colin Raston¹, Adam Martin¹, Ramiz Boulos¹, Lee Hubble^{2,1}, Karel Hartlieb¹

¹The University of Western Australia, Australia, ²CSIRO, Australia

O11 Further developments in the use of fused [n]polynorbornane receptors for anions

14:20 Fred Pfeffer

Deakin University, Australia

- K32 Iron and cobalt spin crossover complexes and [M₃Ln] macrocyclic single-molecule
14:40 magnets
Sally Brooker
University of Otago, New Zealand
- K33 Emergent Self-assembly of Molecular Spheres
15:10 Makoto Fujita
University of Tokyo, Japan

Meeting ends

16:00

