The Young(-ish!) Giants of Chemistry

– A symposium to celebrate Fraser's 65th birthday –

Edinburgh, Scotland

June 6–10, 2007

Programme

All lectures will be in Lecture Theatre T250 in the School of Chemistry (Joseph Black Building)
Breaks, lunches and poster sessions will be in the same building

Wednesday June 6th

Session Chair – Dave Leigh (Edinburgh, UK)

15:00 Welcome – Dave Leigh

15:05 Makoto Fujita (Tokyo, Japan)
Title to be confirmed

15:55 Omar Yaghi (UCLA, USA)
Reticular chemistry

16:45 *Tea/Coffee break*

Session Chair - Stuart Cantrill (Nature Nanotechnology, UK)

17:10 Douglas Philp (St Andrews, UK)
In through the Out door – Directing synthetic replication networks

17:30 Stuart Rowan (Case Western, USA)
Supramolecular polymerization: An approach to nanostructured surfaces

17:50 Craig Hawker (Santa Barbara, USA)
Well-defined polymers: Applications from cardiovascular disease to microelectronics

18:40 *Poster session 1 with buffet dinner and drinks*

Thursday June 7th

Session Chair - Peter Tasker (Edinburgh, UK)

09:00 Takuzo Aida (Tokyo, Japan)
Designer graphite: Molecular design and optoelectronic functions

09:50 Howard Colquhoun (Reading, UK)
Extracting polymer sequence-information with molecular tweezers

10:10 David Amabilino (CSIC, Barcelona, Spain)
Noncovalent control for bottom-up assembly of functional supramolecular wires

10:30 *Tea/Coffee break*

Session Chair - Masumi Asakawa (Tsukuba, Japan)

11:00 Steve Langford (Monash, Australia)
On the chemistry of naphthalenediimides

11:20 Sheng-Hsien Chiu (NTU, Taiwan)
'Threading-followed-by-swelling': A new protocol for rotaxane synthesis

11:40 Alberto Credi (Bologna, Italy)
Photoinduced functions in multicomponent molecular systems

12:30 *Conference photo, outside the main entrance of the Chemistry Department*

12:40 *Lunch*

Session Chair - Anthony Pease (Former Birmingham/UCLA graduate student)

14:00 Miguel Garcia-Garibay (UCLA, USA)
Amphidynamic materials and molecular machines – a new frontier in molecular and crystal engineering

14:50 Amar Flood (Indiana, USA)
Exploiting click triazoles for coordination, stability and structure

15:10 Bruce Turnbull (Leeds, UK)
Stereochemistry of carbohydrates: A novel sugar in the Mycobacterial cell wall

15:30 Yi Liu (Berkeley, USA)
Supramolecular action in the molecular foundry

15:50 *Tea/Coffee break*

Session Chair - Paula Mendes (Birmingham, UK)

16:20 Harry Anderson (Oxford, UK)
Porphyrin-based molecular wires

17:10 Jon Preece (Birmingham, UK)
Nanostructuring surfaces with electrons and light

17:30 Jim Heath (Caltech, USA)
Systems approach to molecular electronics

18:20 *Poster session 2 and drinks mixer*

19:30 *Speakers' dinner (Edinburgh Castle)*

Friday June 8th

Session Chair - Diane Smith (Angewandte Chemie, Germany)

08:30 Karen Wooley (St Louis, USA)
Amphiphilic, nanoscopically resolved crosslinked networks: Unusual surface anti-fouling character, sub-surface host behavior, and bulk modulus property

09:20 Takashi Kato (Tokyo, Japan)
Molecules in order for function: supramolecular liquid-crystalline assemblies

10:10 *Tea/Coffee break*

Session Chair - Geoff Beresford (Auckland, New Zealand)

10:30 Chris Hunter (Sheffield, UK)
Fundamentals of molecular recognition

11:20 Chad Mirkin (Northwestern, USA)
The antisense nanoparticle

12:20 *Lunch*

Afternoon: Optional visit to Glengoyne, 'Scotland's Most Beautiful Whisky Distillery', located close to Loch Lomond. Packed lunches will be supplied for everyone going. Coaches leave from the School of Chemistry at 12:30, return to hotels and the School of Chemistry at 5.30.

19:30 *Conference dinner (Playfair Library, Old College) and poster prizes*

Saturday June 9th

Session Chair - N Jayaraman (Bangalore, India)

09:00 Neil Branda (Simon Fraser, Canada)
Molecular photoswitches and their use in materials science

09:50 Al Nelson (IBM Almaden, USA)
Nanoparticle-polymer composites via molecular recognition

10:10 Geert-Jan Boons (Georgia, USA)
Towards a fully synthetic three-component cancer vaccine

11:00 *Tea/Coffee break*

Session Chair - Scott Vignon (UCLA, USA)

11:30 Jan Jeppesen (SDU, Denmark)
Can an optical sensor for TNT related explosives be made?

11:50 Tim Swager (MIT, USA)
Rotaxanes and electronic polymers

12:40 *Lunch*

Session Chair - Jason Belitsky (Ohio, USA)

13:40 Alex Star (Pittsburgh, USA)
Carbon nanotube transistors: Tools for the study of molecular recognition

14:00 Thorri Gunnlaugsson (Dublin, Ireland)
Functional lanthanide luminescent self-assemblies

14:20 Steve Loeb (Windsor, Canada)
Rotaxanes as ligands: From molecules to materials

15:10 *Tea/Coffee break*

Session Chair - Giuseppe Gattuso (Messina, Italy)

15:30 Franz Kohnke (Messina, Italy)
Pyrrole-containing macrocyclic receptors for anions in action

15:50 Dirk Guldi (Erlangen, Germany)
Nanotubes see the light

16:40 *Birthday tea*

17:00 Sir J Fraser Stoddart (UCLA, USA)
Walking in the footsteps of Young-ish Giants

Sunday June 10th

Departures