

4th DYNAMOL Event Programme (23rd-27th October 2012 – Cambridge)

DYNAMOL Mid-Term Review Meeting

Tuesday, 23rd October

Venue: **Scott Polar Lecture Theatre**

9.00	- Registration												
9.15	- Introduction (by the Coordinator and the REA representative)												
9.30	- Tour de table (PIs presentation of their team and their role within the network)												
10.00	- Coordinator's Report												
11.00	<i>Coffee break</i>												
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14.30	- Meeting between the Fellows and the REA Representative												
15.30	<i>Coffee break</i>												
16.00	- Open discussion												
17.00	- Group Photo												

4th DYNAMOL Workshop: “Applications of Nano-sized Compounds and Materials”

Wednesday, 24th October

Venue: **Scott Polar Lecture Theatre**

9.15	- Introduction
9.30	- 1st Students Talks Session: <ul style="list-style-type: none"> - 9.30 - William Ramsay - University of Cambridge - UK <i>“Paddle Wheels in Supramolecular Cubic Architectures”</i> - 9.50 - Colm Browne - University of Cambridge - UK <i>“Synthesis and Host-Guest Chemistry of Metallo-Organic Cages”</i> - 10.10 - Ana M. Castilla - University of Cambridge - UK <i>“Synthesis of New Architectures Through Subcomponent Self-assembly”</i>
10.30	<i>Coffee break</i>
11.00	- 2nd Students Talks Session: <ul style="list-style-type: none"> - 11.00 - Matthew Wise – EPFL - Switzerland <i>“Clathrochelates as Building Blocks in Structural Supramolecular Chemistry”</i> - 11.20 - Laura Bonaventura – Univ. Kiel - Germany <i>“Towards self-assembling dendrimers”</i>
11.40	- Management Meeting (Todd-Hamied room, Department of Chemistry)
12.30	<i>Lunch break</i>
13.30	- 3rd Students Talks Session: <ul style="list-style-type: none"> - 13.30 - Serap Yapar – Univ. Kaiserslauten - Germany <i>“Novel Water Soluble Nanoparticles for Peptide Recognition”</i> - 13.50 - Piotr Nowak – Univ. of Groningen, The Netherlands <i>“Instructable Nanoparticles for Biomacromolecule Recognition”</i> - 14.10 - Sreejith Shankar - Weizmann Institute of Science - Israel <i>“Metal Directed Coordination Chemistry of Polypyridyl Ligands and Complexes”</i>
14.30	<i>Coffee break</i>
14.45	- Visit to Cambridge Colleges

4th DYNAMOL Workshop: “Applications of Nano-sized Compounds and Materials”

Thursday, 25th October

Morning Session Venue: **Scott Polar Lecture Theatre**

9.30	- 4th Students Talks Session: - 9.30 - Maria Oikonomou - Wageningen University - The Netherlands <i>“Building blocks for the fabrication of a dynamic, non-covalent Quantum Dot network”</i> - 9.50 - Christos Tsiamantias – Univ. Bordeaux - France <i>“Probing Helix Stability of Aromatic Amide Oligomers”</i> - 10.10 - Kitjanit Neranon – KTH Stockholm - Sweden <i>“Assembly of synthetic capsids”</i>
10.30	<i>Coffee break</i>
11.00	- 5th Students Talks Session - 11.00 - Rui Carvalho – Micronit – The Netherlands <i>“Localised surface functionalisation within microfluidic channels”</i> - 11.20 - Dr. Julian Holstein - Global Phasing - UK <i>“Supramolecular Chemistry and Macromolecular Crystallography”</i>
11.40	- Final Remarks
12.00	<i>Lunch break</i>

Afternoon Session Venue: **Department of Chemistry, Wolfson Lecture Theatre**

13.30	- Prof. Jeremy Sanders - University of Cambridge - UK <i>“Evolution of Dynamic Combinatorial Chemistry”</i>
14.30	- Dr. Rafal Klajn - Weizmann Institute of Science - Israel <i>“Dynamic materials and systems based on photoresponsive molecules”</i>
15.30	<i>Coffee break</i>
16.00	- Prof. Christoph Schalley - Freie Universität Berlin - Germany <i>“Supramolecular Reactivity: From Kinetic Path Selection in Self-Assembly and Stimuli Responsive Gels to Ordered Pseudorotaxane Multilayers on Surfaces”</i>
17.00	- Prof. Fraser Stoddart - Northwestern University - USA <i>“Nanoporous Coordination Polymers: Materials for Tomorrow's World”</i>
19.00	<i>Symposium dinner - St Catharine's College</i>

DYNAMOL Crystallographic Course

Friday, 26th October

Venue: Department of Chemistry, Todd Hamied meeting room

9.00	- Welcome and general introduction
9.30	- Dr J. W. Liebeschuetz – Cambridge Crystallographic Data Center <i>“The Cambridge Structural Database - The world's storehouse of high quality chemical structural knowledge”</i>
10.15	- Dr J. W. Liebeschuetz – Cambridge Crystallographic Data Center <i>“Practical molecular design with the help of the Cambridge Structural Database”</i>
11.00	<i>Coffee break</i>
11.15	- Dr J. J. Holstein – Global Phasing <i>“Crystallisation Techniques”</i>
11.45	- Dr T. Ronson – University of Cambridge <i>“Crystallisation of supramolecular assemblies”</i>
12.30	<i>Lunch break</i>
13.30	- Dr J. J. Holstein – Global Phasing <i>“Validation of crystal quality”</i>
14.00	- Dr T. Ronson, Dr J. J. Holstein <i>“Microscope practice and crystal mounting”</i>
15.00	<i>Coffee break</i>
15.15	- Dr Julian J. Holstein – Global Phasing <i>“Crystallographic Concepts”</i>
16.00	- Dr G. Bricogne – Global Phasing <i>“Methods of structure solution, from small molecules to macromolecules”</i>

DYNAMOL Crystallography Course

Saturday, 27th October

Venue: Department of Chemistry, **Todd-Hamied Meeting Room**

9.00	- Dr J. J. Holstein – Global Phasing <i>“Introduction to SHELX programs and file formats”</i>
9.30	- Dr C. B. Hübschle – University of Göttingen <i>“ShelXle a graphical-user interface for SHELXL structure refinements”</i>
10.30	- Dr T. Ronson, Dr C. B. Hübschle and Dr J. J. Holstein <i>“Simple structures: Hands-on structure refinement”</i>
11.15	- <i>Coffee break</i>
11.30	- Dr T. Ronson, Dr C. B. Hübschle and Dr J. J. Holstein <i>“Simple structures: Hands-on structure refinement”</i>
12.30	<i>Lunch break</i>
13.30	- Dr J. J. Holstein – Global Phasing <i>“Modelling of disorder in SHELXL”</i>
14.00	- Dr T. Ronson, Dr C. B. Hübschle and Dr J. J. Holstein <i>“Disordered structures: Hands-on structure solution and refinement”</i>
15.00	<i>Coffee break</i>
15.15	- Dr T. Ronson, Dr C. B. Hübschle and Dr J. J. Holstein <i>“Disordered structures: Hands-on structure solution and refinement”</i>
16.30	- Dr J. J. Holstein – Global Phasing <i>“Crystallographic literature”</i>
19.00	<i>Course Dinner – The St John’s Chop House</i>