**Theatre Monday July 9th**

***10.15 Welcome***

***Nigel Thrift VC of Warwick University***

***Steve Howdle Chair of Macro Group UK***

***David Haddleton On behalf of the local organisers***

***Agilent session***

***Chair: D.M. Haddleton***

**10.30-11.00 Professor Craig Hawker** *Materials Research Laboratory, UCSB* **PL1**

Generating Complex Nanoscale Patterns through Bottom-up Self-Assembly

**11.00-11.30 Professor Jean Frechet** *King Abdullah University of Science and Technology* **PL2**

Functional macromolecules in energy conversion.

**11.30-12.00 Professor Fraser Stoddart** *Northwestern University*  **PL3**

Positive Cooperativity in the Template-Directed Synthesis of Monodisperse Macromolecules

**12.00-12.30 Professor Krzysztof Matyjaszewski** *Carnegie Mellon* **PL4**

ATRP under biorelevant conditions

**12.30-1.00 Professor Xi Zhang** *Tsinghua University*  **PL5**

Supramolecular Polymerization Driven by Host-Enhanced Noncovalent Interactions

***Chair: J.C.M. Van Hest***

**2.00-2.30 Professor Eva Harth** *Vanderbilt University*  **I1**

Functionalized Polyester and Glycidol Polymers with Control in Branching: Synthesis of Monomers and Supramolecular Network Formation.

**2.30-3.00 Professor Harm-Anton Klok** *Ecole Polytechnique Fédérale de Lausanne (EPFL)* **I2**

Interactive and responsive polymer brushes prepared via surface-initiated polymerization

***Chair: E.M. Harth***

**3.30-4.00 Professor Thomas Davis** *Aus. Centre for NanoMedicine and CAMD, UNSW* **I11**

New Synthesis of Biodegradable Nanoparticles based on Dextran

**4.05-4.20 Professor J. D. Tovar** *Johns Hopkins University*  **C1**

Nano- and macrostructures derived from the supramolecular polymerization of pi-conjugated self-assembling peptides

**4.20-4.35 Dr Nico Bruns** *University of Basel, Department of Chemistry* **C2**

ATRPases: Enzymes that catalyze atom transfer radical polymerization

**4.35-4.50 Dr Lei Tao** *Tsinghua University*  **C3**

Self-healing hydrogels for bio-applications

**4.55-5.10 Dr Simon Harrisson** *Université de Paris Sud XI*  **C4**

Copper-mediated preparation of alkoxyamines and the SET/ARGET debate

**5.10-5.25 Professor Jose A. Pomposo** *University of the Basque Country* **C5**

Single-Chain Nanoparticles via "Self-Click" Chemistry

**5.30-5.45 Dr Paul Thornton** *Durham University*  **C6**

The Highly Controlled Synthesis of High Molecular Weight Star Shaped Polypeptides via NCA Ring Opening Polymerisation (NCA ROP) from a Dendritic Core.

**5.45-6.00 Dr Tim Smith** *Lubrizol Ltd*  **C7**

Leading polymer development for the lubricants industry

**Cinema Monday July 9th**

***Bruker Session***

***Chair: C.R. Becer***

**2.00-2.30 Professor Yusuf Yagci** *Istanbul Technical University*  **I3**

Macromolecular synthesis by photochemical methods

**2.30-3.00 Professor Patrick Theato** *Univ. of Hamburg, Inst. Tech. and Macromol. Chem.* **I4**

New ways of installing single reactive groups along a polymer chain or at the chain end

***Chair: P. Theato***

**3.30-4.00 Professor Theresa Reineke** *University of Minnesota*  **I12**

Core-Shell Carbohydrate-Based Block Copolymers Designed for Biological Delivery

**4.05-4.20 Professor Wenlong Cheng** *Monash University*  **C8**

Novel Reusable Reversible Polymer via Solid-state Topochemical Polymerization

**4.20-4.35 Dr Nathalie Lavignac** *Medway School of Pharmacy* **C9**

Poly(disulfide amine) for nucleic acid delivery

**4.35-4.50 Dr Lian Hutchings** *Department of Chemistry, Durham University* **C10**

Synthesis of model branched polymers - the advantages of the macromonomer approach

**4.55-5.10 Professor Shiyong Liu** *University of Science & Technology of China* **C11**

Caged Polyelectrolytes: Stimuli-Triggerable Charge-Generation Polymers (CGPs) and Functional Materials

**5.10-5.25 Professor Felix Schacher** *Friedrich-Schiller-University Jena* **C12**

Hierarchical Self-Assembly of Star-Shaped Organometallic Crystalline-Coil Block Copolymers in Solution

**5.30-5.45 Dr Anja Goldmann** *Karlsruhe Institute of Technology (KIT)* **C13**

Tailored surface modification of biosubstrates

**Conference Room Monday July 9th**

***Chair: P. Vana***

**2.00-2.30 Dr Paul Topham** *Aston University* **I5**

Polymer-Peptide Biohybrids

**2.30-3.00 Professor Bert Klumperman** *Stellenbosch University*  **I6**

Hierarchical Self-Assembly of Poly(Aryl-Triazole)s

***Chair: P. Topham***

**3.30-4.00 Dr Victoria Osborne** Revolymer Ltd  **I13**

The Science behind Rev7 – The Removable Chewing Gum

**4.05-4.20 Professor Steven Bottle** *Queensland University of Technology* **C15**

Fluorescence Switch On With Profluorescent Nitroxides in Epoxy Resins On Cure

**4.20-4.35 Dr Jorge Coelho** *University of Coimbra* **C16**

Membranes from an unsaturated poly(ester amide) based on glycine and (L)-lactic acid and poly(ethylene glycol): Preparation, Characterization and Biodegradation Studies

**4.35-4.50 Dr Peter Roth** *CAMD, University of New South Wales* **C17**

UCST-type behaviour of POEGMA in alcohols: Structure Dependence and Applications

**4.55-5.10 Qiang Zhang** *University of Warwick*  **C18**

Highly sequence controlled multiblock glycopolymers via Cu(0)-mediated radical polymerizations (SET-LRP)

**5.10-5.25 Dr Derek Irvine** *University of Nottingham*  **C19**

Investigation into the Mechanism of Microwave Induced Rate Enhancements in Chain Growth Polymerisation

**5.30-5.45 Professor Philipp Vana** *Univ. of Goettingen - Institute of Physical Chemistry* **C20**

Gold nano-particles and multi-block copolymers from RAFT – a love story

**5.45-6.00 Dr Gregory Simpson** *CSIRO*  **C21**

Using the Dynamic Bond to Access Macroscopically Stimuli-Responsive Materials

**Ensemble Monday July 9th**

***Chair: W. Thielemans***

**2.00-2.30 Dr Dave Adams** *University of Liverpool* **I7**

Dipeptide-based Gelators

**2.30-3.00 Dr Charlotte Williams** *Imperial College London*  **I8**

Catalytic activation of renewable resources in polymer synthesis

***Chair: D.J. Adams***

**3.30-4.00 Professor Eva Malmström** *KTH Fiber and polymer technology* **I14**

Telechelic macromonomers by enzyme-catalyzed polymerization for thin film applications

**4.05-4.20 Dr Min Tang** *Imperial College London*  **C22**

Synthesis and Characterization of various copolymers from a carbohydrate lactone and their applications in medicine and in cellulose nanocomposites

**4.20-4.35 Dr Kei Saito** *Monash University* **C23**

Novel Reusable Reversible Polymer via Solid-state Topochemical Polymerization

**4.35-4.50 Ms Zhongqiang Yang** *Tsinghua University* **C24**

The assembly and functions of DNA-dendron hybrid

**4.55-5.10 Dr Jonathan Howse**  *University of Sheffield* **C25**

In-situ Studies of Spin Coating of Polymer Blends

**5.10-5.25 Pepa Cotanda** *University of Warwick* **C26**

Functionalized organocatalytic nanoreactors: hydrophobic pockets for acylation reactions in water

**5.30-5.45 Professor Saad Uddin Choudhury** *Cotton College State University* **C27**

Green Composites from Waste Materials

**5.45-6.00 Dr Wim Thielemans** *University of Nottingham*  **C28**

Surface-initiated polymerisation from cellulose nanocrystals

**Studio Monday July 9th**

***Chair: M. Lansalot***

**2.00-2.30 Dr Giuseppe Mantovani** *University of Nottingham*  **I9**

Intelligent polymeric nanocarriers for anticancer therapy

**2.30-3.00 Dr David Fulton** *Newcastle University*  **I10**

Introducing Stimuli Responsiveness Into Polymeric Nanoparticles with Dynamic Covalent Bonds

***Chair: G. Mantovani***

**3.30-4.00 Professor Thomas Russell** *University of Massachusetts*  **I15**

From Ultradense Arrays of Nanodots to Nanolines: A Route to Addressable Media

**4.05-4.20 Dr Brian Saunders** *University of Manchester* **C29**

One-step preparation of uniform cane-ball shaped water-swellable microgels

**4.20-4.35 Dr Bruno De Geest** *Ghent University*  **C30**

Synthetic vaccines - mimicing microbial structure and function

**4.35-4.50 Dr Jose Ramos** *University of the Basque Country UPV/EHU* **C31**

PVCL-based biocompatible nanogels for biomedical applications

**4.55-5.10 Dr Muriel Lansalot** *CNRS - C2P2* **C32**

Batch RAFT emulsion polymerization mediated by poly(methacrylic acid) macroRAFT agents: one-pot synthesis of self-stabilized particles

**5.10-5.25 Dr Markus Retsch** *University of Bayreuth*  **C33**

Optical and Mechanical Properties of Hollow Silica Nanoparticles

**5.30-5.45 Dr Verena Gortz** *University Of York*  **C34**

**Monodisperse Liquid Crystal Elastomer Particles by Dispersion Polymerisation**

**5.45-6.00 Professor Hanying Zhao** *Nankai University*  **C35**

Self-assembly of Gold Nanoparticles at Liquid-Liquid Interface and Fabrication of Polymer-Gold nanoparticles Ordered Structures

**Theatre Tuesday July 10th**

***Chair: R.K. O’Reilly***

**8.30-9.00 Professor Mitsuo Sawamoto** *Kyoto University*  **PL6**

Perspective of Precision Radical Polymerization

**9.00-9.30 Professor Marc Hillmyer** *University of Minnesota*  **PL7**

TBC

**9.30-10.00 Professor Ian Manners** *University of Bristol*  **PL8**

Functional Nanomaterials via Crystallization-Driven “Living Self-Assembly"

**10.00-10.30 Professor Karen Wooley** *Texas A&M University*  **PL9**

Nanoscopic polymer objects of unique shapes and morphologies and well-defined structures and dimensions as controlled drug delivery devices

***Aldrich Session***

***Chair: R.K. O’Reilly***

**11.00-11.30 Professor Ulrich S Schubert** *Freidrich-Schiller-University Jena* **I16**

Electrical energy storage: How polymers can replace cobalt and enable printable batteries

**11.30-12.00 Professor Marcus Weck** *New York University*  **I17**

Polymer-Supported Catalysis: Synergy Between Catalytic Mechanism and Polymer Design

**12.00-12.30 Professor Christopher Barner-Kowollik** *Karlsruhe Institute of Technology (KIT)* **I18**

Pericyclic Reactions for High Resolution (Bio)Surface Design

**12.30-1.00 Professor Neil Cameron** *Durham University*  **I19**

Porous Polymers by Emulsion Templating

***MacroGroup Award Session***

***Chair: S. Howdle***

**2.00-2.30 Professor Andrew Cooper** *University of Liverpool*  **A1**

Functional Conjugated Microporous Polymers - Sorption, Catalysis and Separation

**2.30-3.00 Dr Ian Kinloch** *University of Manchester*  **A2**

Low Dimension Carbons as Functional Fillers and Reinforcements in Polymer Composites

***MacroGroup Award Session***

***Chair: S. Howdle***

**3.30-4.00 Ms Kate Thompson** *The University of Sheffield*  **A3**

Stabilisation of Pickering emulsions using sphere, worm and vesicle nanoparticles prepared by RAFT aqueous dispersionpolymerisation

**4.05-4.20 Dr Jonathan Henry Wilson** *Merck Chemicals Ltd*  **C36**

One-Step Synthesis of Shape and Optically Anisotropic Polymer Particles

**4.20-4.35 Dr Ramon Novoa-Carballal**  *University of Bayreuth*  **C37**

Synthesis of Polysaccharide-b-PEG Block Copolymers by Oxime Click and their use for the formation of interpolyelectrolytenanogels

**4.35-4.50 Dr Huaping Xu** *Tsinghua University*  **C38**

Selenium-containing Polymers: from Molecular Design to Controlled Self-assembly and Disassembly

**4.55-5.10 Dr Vincent Ladmiral** *University Of Sheffield*  **C39**

Glycopolymer-stabilized nanostructures by aqueous RAFT dispersion polymerisation

**5.10-5.25 Dr Michael Whittaker** *Centre for Advanced Macromolecular Design (CAMD), UNSW* **C40**

**Living Free Radical Polymerisation in the Presence of Cu(0): Towards Biological Precision**

**5.30-5.45 Dr Anders Egede Daugaard** *Technical University of Denmark*  **C41**

A Platform for Functional Conductive Polymers

**5.45-6.00 Dr Sophie Monge** *Institut Charles Gerhardt - Equipe IAM - Université Montpellier* **C42**

Thermosensitive and complexing poly(N-n-propylacrylamide)-b-poly((dimethylphosphoryl)ethyl acrylamide) block copolymers for water treatment

**6.00-6.15 Dr Phuoc Dien Pham** *Institut Charles Gerhardt - Equipe IAM- Université Montpellier* **C49**

Oligomerization of Glycerol-Based Monomers and Functionalization

**Cinema Tuesday July 10th**

***Chair: E. Klumperman***

**11.00-11.30 Dr Jean-François Lutz** *Institut Charles Sadron*  **I20**

Synthetic Polymers with Controlled Primary Structures: Design, Folding and Function

**11.30-12.00 Dr Matthew Gibson**  Warwick University, *Department of Chemistry*  **I21**

Interfacing Materials with Biology: Glycoprotein Mimics and Smart Materials

**12.00-12.30 Professor A. Levent Demirel** *Koç University*  **I22**

Self-Assembly of Macromolecules into Nanostructures in Solution

**12.30-1.00 Professor Filip Du Prez** *Ghent University* **I23**

One-pot multistep reactions based on thiolactones: extending the realm of thiol-ene chemistry in polymer synthesis

***Chair: N. McKeown***

**2.00-2.30 Dr Andreas Heise** *Dublin City University (DCU)*  **I36**

Synthetic polypeptides as functional (bio)materials

**2.30-3.00 Professor Darrin Pochan** *University of Delaware*  **I37**

Multicompartment/Multicomponent Micelles with Block Copolymer Blending through Kinetic Control of Solution Assembly

***Chair: A. Heise***

**3.30-4.00 Professor Neil McKeown** *Cardiff University*  **I44**

New tricks with an old bicycle: Microporous polymers prepared by the formation of Tröger's base

**4.05-4.20 Dr Steve Edmondson** *Department of Materials, Loughborough University* **C43**

ARGET ATRP and Polydopamine Initiators for Versatile Polymer Brush Growth

**4.20-4.35 Professor Eric Drockenmuller** *University of Lyon*  **C44**

Polymers from renewable resources and robust, efficient and orthogonal chemistries

**4.35-4.50 Dr Sebastian Spain** *University of Nottingham*  **C45**

Development of immunostimulatory polymers for vaccine adjuvants

**4.55-5.10 Dr Franck D'Agosto** *CNRS*  **C46**

Preparation of polyethylene (PE) bearing functional chain ends and their use for the design of original PE based materials.

**5.10-5.25 Professor Sophie Guillaume** *Institut des Sciences Chimiques de Rennes, Univ. de Rennes*  **C47**

alpha,omega-Dihydroxytelechelic Poly(Trimethylene Carbonate)s: Valuable Precursors to Polyester-b-Polycarbonate and to Non-Isocyanate Poly(Carbonate Urethane)s

**5.30-5.45 Dr Michael Kember** *Imperial College London*  **C48**

New Catalysts for epoxide/CO2 copolymerisation: Evidence for a dinuclear mechanism?

**Conference Room Tuesday July 10th**

***Chair: H.-A. Klok***

**11.00-11.30 Professor Joachim Spatz** *Max Planck Institute & Univ. of Heidelberg* **I24**

Functional Polymer Interfaces for Switching Cell Fate

**11.30-12.00 Professor Kelly Velonia** *Dept. of Mat. Sci. and Tech., Univ. of Crete* **I25**

In Situ Hierarchical Formation of Giant Amphiphile nanocarriers, nanocontainers, nanoreactors.

**12.00-12.30 Professor Volga Bulmus** *Izmir Institute of Technology* **I26**

Stimulus-sensitive polymer bioconjugates for nanomedicine applications

**12.30-1.00 Dr Helmut Schlaad** *Max Planck Institute of Colloids and Interfaces* **I27**

Functionalization of Polypeptides via Thiol-X Photochemistry

***Chair: T.P. Davis***

**2.00-2.30 Professor Gregory Tew** *Univ. of Massachusetts, Amherst Dept. of Polym. Sci. and Eng.* **I38**

Designing Polymers with Strong Similarity to Biology

**2.30-3.00 Professor Heather Maynard** *University of California at Los Angeles*  **I39**

Polymers That Stabilize Proteins and Protein Conjugates to Environmental Stressors

***Chair: H.A. Maynard***

**3.30-4.00 Professor Richard Hoogenboom** *Ghent University* **I45**

Poly(2-oxazoline)s and beyond

**4.05-4.20 Johan Sebastian Basuki** *Australian Centre for Nanomedicine, UNSW* **C50**

Versatile Multi-functionalization of Magnetic Nanoparticles for Biomedical Applications

**4.20-4.35 Dr George Whittell** Univ. of Bristol, *School of Chemistry*  **C51**

Solution phase self-assembly of polyferrocenylsilane-containing triblock co-polymers

**4.35-4.50 Dr Paul Wilson** *University of Warwick*  **C52**

Polymer Logistics; Smart Polymers for Cargo Transport and Triggered Release.

**4.55-5.10 Dr Kristian Kempe** *Friedrich-Schiller-Universität Jena*  **C53**

Multifunctional poly(2-oxazoline)s - side chain functionalization and polymer post-modification by efficient reactions

**5.10-5.25 Dr Melania Bednarek** *Center of Molecular and Macromolecular Studies, PAS* **C54**

Functionalized polylactides by cationic polymerization

**5.30-5.45 Dr Julien Gautrot** *Queen Mary University of London*  **C55**

Micro-patterned polymer brushes for cell-based assays: from cell shape to micro-tissue assembly

**5.45-6.00 Professor Laurent Billon** *IPREM EPCP*  **C56**

Glycopolymers synthesized by RAFT and NMP for Lectin Recognizable Biomaterials

**Ensemble Tuesday July 10th**

***Polytherics Session***

***Chair: S. Brocchini***

**11.00-11.30 Professor Cameron Alexander** *University of Nottingham* **I28**

Varying polymer structures for delivering drugs and recognising cell signals

**11.30-12.00 Professor Martina Stenzel** *University of New South Wales* **I29**

Development of a drug delivery system for platinum drugs

**12.00-12.30 Professor Sebastien Lecommandoux** *Université de Bordeaux*  **I30**

Smart Polymersomes: from Biomimicry to Smart Drug Delivery

**12.30-1.00 Dr Julien Nicolas** *Univ. Paris-Sud*  **I31**

Dual Active Targeting Using a Single Nanoparticulate Platform: Application to Cancer and Alzheimer’s Disease

***Chair: C. Alexander***

**2.00-2.30 Dr Oren Scherman** *University of Cambridge*  **I40**

Cucurbiturils at the Interface between Supramolecular Chemistry and Materials Science

**2.30-3.00 Professor Michael Meier** *Karlsruhe Institute of Technology (KIT)*  **I41**

Plant oils: The perfect renewable resource for polymer science?

***Chair: M.A. Meier***

**3.30-4.00 Dr Brett Helms** *The Molecular Foundry - Lawrence Berkeley National Lab.* **I46**

A polymer approach to nanocrystal-based electroactive layers with tailored architectures for advanced energy applications

**4.05-4.20 Dr Matthew Bird** *PolyTherics Ltd*  **C57**

TB The Importance of Homogeneity in PEGylated Biologics

**4.20-4.35 Dr Daniel Keddie** *CSIRO Materials Science and Engineering* **C58**

Reversible addition-fragmentation chain transfer polymerization of vinyl chloride

**4.35-4.50 Dafni Moatsou** *University of Warwick*  **C59**

Synthesis of non-natural amino acids and their polymerisation

**4.55-5.10 Dr Tara Schiller** *Monash University*  **C60**

Synthesis and Characterizatio of "Glycopolyurethanes"

**5.10-5.25 Professor Gaojian Chen** *Soochow University*  **C61**

Novel Boron-containing Vesicles for BNCT, Controlled Drug Release and Diagnostic Imaging

**5.30-5.45 Dr Jonathan Behrendt** *The University of Manchester*  **C62**

Fluorescent Nanoparticles from PEGylated Polyfluorenes

**5.45-6.00 Professor Nathan Gianneschi** *University of California, San Diego* **C63**

Programming the Morphology of Nanoparticles with Peptides, DNA and Enzymes

**Studio Tuesday July 10th**

***Chair: S.A.F. Bon***

**11.00-11.30 Professor Jan van Hest** *Radboud University Nijmegen*  **I32**

Functional Polymersomes via Kinetic Control

**11.30-12.00 Professor Steven Armes** *University of Sheffield*  **I33**

RAFT Aqueous Dispersion Polymerisation

**12.00-12.30 Professor Frank Caruso** *The University of Melbourne*  **I34**

Engineered Polymer Films and Particles Designed to Interface with Biology

**12.30-1.00 Dr To Ngai** *The Chinese University of Hong Kong*  **I35**

Microgels at the oil-water interfaces

***Chair: P.A. Lovell***

**2.00-2.30 Professor Thomas Epps** *University of Delaware*  **I42**

Designer Nanoscale Materials: Interfacial Manipulations in Block Copolymer Systems

**2.30-3.00 Professor Per Zetterlund** *The University of New South Wales*  **I43**

Miniemulsion Polymerization Using Graphene Oxide as Sole Surfactant

***Chair: T.H. Epps***

**3.30-4.00 Professor Pei Li** *The Hong Kong Polytechnic University*  **I47**

Formation of Nanostructured Materials Using Amphiphilic Hollow Particles as Novel Building Blocks

**4.05-4.20 Professor Peter Lovell** *University of Manchester*  **C64**

A New Nitroxide for Nitroxide-Mediated Polymerisation at Temperatures Below 100 °C

**4.20-4.35 Dr Niels M.B. Smeets** *McMaster University*  **C65**

Hyperbranched Polymers synthesized from Catalytic Chain Transfer Polymerization for Macromolecular Design

**4.35-4.50 Nicholas Ballard** *University of Warwick*  **C66**

Anisotropic Particles as Surfactants

**4.55-5.10 Professor Frieder Jaekle** *Rutgers University – Newark*  **C67**

Self-Assembled Nanostructures of Luminescent Organoboron Block Copolymers and Star Polymers

**5.10-5.25 Dr Iria Louzao Pernas** *Institute for Molecules and Materials, Radboud University*  **C68**

Permeability effects in polymersome-based artificial organelles

**5.30-5.45 Dr James Blinco** *Queensland University of Technology*  **C69**

The Design of Profluorescent Nitroxide Based Sensor Materials

**5.45-6.00 Dr Nuno Rocha** *Chemical Engineering Department, University of Coimbra* **C70**

Acrylic based emulsions as enhancers of geopolymer properties.

**Theatre Wednesday July 11th**

***Chair: A.P. Dove***

**8.30-9.00 Professor George Whitesides** *Harvard University*  **PL10**

**New Problems for Polymer Scientists**

**9.00-9.30 Professor Egbert Meijer** *University of Technology Eindhoven* **PL11**

**TBC**

**9.30-10.00 Professor Virgil Percec** *University of Pennsylvania*  **PL12**

**New Synthetic Methods for Macromolecular and Supramolecular Synthesis**

**10.00-10.30 Professor Joseph DeSimone** *University of North Carolina at Chapel Hill*  **PL13**

Co-opting Moore’s Law: Vaccines, Medicines and Interfacially-Active Particles Made on a Wafer

***Chair: C. Barner-Kowollik***

**11.00-11.30 Dr Didier Bourissou** *University of Toulouse*  **I48**

Tailor-made Biodegradable Polymers: New Preparation Routes and Applications in Drug Delivery Systems

**11.30-12.00 Professor Sebastien Perrier** *Key Centre for Polymers & Colloids, Univ. of Sydney* **I49**

Using Molecular Engineering to build Nanostructured Materials

**12.00-12.30 Dr Remzi Becer** *University of Warwick*  **I50**

Synthesis of glycopolymers and their interactions with lectins

**12.30-1.00 Dr Graeme Moad** *CSIRO*  **I51**

The Scope for RAFT Single Unit Monomer Insertion

**Cinema Wednesday July 11th**

***Chair: J.F. Lutz***

**11.00-11.30 Professor Steve Howdle** *University of Nottingham*  **I52**

Supercritical Fluids: A Dispersion Polymerisation Route to Nanostructured Block Copolymer Microparticles

**11.30-12.00 Professor Kristi Kiick** *University of Delaware*  **I53**

Biopolymeric conjugates as injectable cardiovascular therapeutics

**12.00-12.30 Professor Brent Sumerlin** *Southern Methodist University*  **I54**

Dynamic-covalent branched polymer assemblies

**12.30-1.00 Professor Jeffrey Pyun** *University of Arizona*  **I55**

Elemental Sulfur: A novel feedstock for polymers and nanomaterials

**Conference Room Wednesday July 11th**

***Chair: N.R. Cameron***

**11.00-11.30 Professor Robert B Grubbs** *Stony Brook University*  **I56**

From copolymers to functional materials

**11.30-12.00 Professor Stuart Rowan** *Case Western Reserve University*  **I57**

Preparation and characterization of a hybrid epoxy-acrylic copolymer for high performance coatings application

**12.00-12.30 Professor Christopher Bielawski** *University of Texas at Austin*  **I58**

Beyond the Thermal Limit: Twisting & Stretching Molecules Using Mechanical Force

**12.30-1.00 Professor Matthew Becker** *The University of Akron*  **I59**

Degradable, Amino Acid-based Poly(ester urea)s for Bone Defect Repair

**Ensemble Wednesday July 11th**

***Chair: M.I. Gibson***

**11.00-11.30 Professor Philippe Dubois** *University of Mons – UMONS*  **I60**

From synthesis of biobased polymers by reactive extrusion to high performance durable materials

**11.30-12.00 Dr Neil Ayres** *University of Cincinnati*  **I61**

Polymer synthesis incorporating N-alky urea peptoid oligomers

**12.00-12.30 Professor Andrew Lowe** *Centre for Advanced Macromolecular Design, UNSW* **I62**

Thiol-Michael Coupling in Advanced Polymer Synthesis

**12.30-1.00 Dr Chiara Neto** *The University of Sydney*  **I63**

Functional patterned surface coatings by dewetting of thin polymer films

**Studio Wednesday July 11th**

***Chair: S.P. Armes***

**11.00-11.30 Professor Molly Stevens** *Imperial College London*  **I64**

New biomaterials-based approaches for tissue regeneration and biosensing

**11.30-12.00 Professor Dennis Discher** *Univ. Pennsylvania*  **I65**

From self-assembly to self-recognition with nanobio-polymers

**12.00-12.30 Professor Bernadette Charleux** *University Claude Bernard Lyon*  **I66**

Rules that determine the final morphology of poly(methacrylic acid-co-PEO methacrylate)-b-polystyrene block copolymer nanoobjects formed in situ by polymerization-induced micellization in water or in water/ organic cosolvent media.

**12.30-1.00 Professor José M Asua** *POLYMAT, University of the Basque Country* **I67**

Opportunities offered by photopolymerization in continuous tubular reactors for the production of waterborne dispersions

**Theatre Thursday July 11th**

**Plenary Lecture Session**

***Chair: C.R. Becer***

**9.00-9.30 Professor Ming Jiang** *Fudan University* **PL14**

Hybrid Inclusion Complex (HIC) and its Key Role in Constructing New Polymeric Materials

**9.30-10.00 Professor Takuzo Aida** *Dept. of Chemistry and Biotechnology, The University of Tokyo* **PL15**

Functional 'Aqua' Materials -- Development and Applications

***Chair: K.L. Kiick***

**10.30-11.00 Professor Steve Brocchini** *UCL School of Pharmacy and PolyTherics* **I68**

Conjugation of polymers to proteins by bis-alkylation

**11.00-11.30 Professor Todd Emrick** *University of Massachusetts* **I69**

Functional hydrophilic and amphiphilic polymers tailored for encapsulation and delivery.

**11.30-12.00 Professor Daniel Savin** *The University of Southern Mississippi*  **I70**

Solution Self-assembly and Responsiveness in Polypeptide-based Block and Star Copolymers

**12.00-12.30 Dr Hans Heuts** *Eindhoven University of Technology* **I71**

Exploring the Chemistry of CCT-Derived Macromonomers

**12.30-12.45 Dr Beulah McKenzie** *Eindhoven Technical University*  **C71**

Complex Polymeric Bicontinuous Nanospheres as Templates for Mineralization

**12.45-1.00 Dr Yu Zheng** *Network of Excellence for Functional Biomaterials* **C72**

Single cyclized polymer: Beyond Flory-Stockmayer theory

**Cinema Thursday July 11th**

***Chair: B. Charleux***

**10.30-11.00 Professor Mahesh Mahanthappa** *University of Wisconsin–Madison, Department of Chemistry* **I72**

Molecular Heterogeneity in Self-Assembly: Is Monodispersity Necessary?

**11.00-11.30 Professor Nicolay Tsarevsky** *Southern Methodist University* **I73**

Hyperbranched Polymers with Precisely Placed Functional Groups via ATRP and Conventional Radical Polymerization in the Presence of Efficient Chain Transfer Agents: Synthesis and Applications

**11.30-12.00 Professor Mathias Destarac** *University Paul Sabatier, Toulouse*  **I74**

RAFT/MADIX-derived hydrophilic/CO2-philic diblock copolymers: synthesis and solubility in supercritical carbon dioxide

**12.00-12.30 Professor Jean-François Gohy** *Catholic University of Louvain*  **I75**

Nanomaterials from photocleavable block copolymers

**12.30-12.45 Dr Kristofer Thurecht** *Australian Institute for Bioengineering and Nanotechnology* **C73**

Hyperbranched polymers for polymer tharanostics

**12.45-1.00 Dr Christina Ott** *CSIRO Materials Science and Engineering* **C74**

Development of stimuli-responsive hybrid nanoparticles for advanced coatings applications, based on an ABCD type block copolymer

**Conference Room Thursday July 11th**

***Chair: D.A. Fulton***

**10.30-11.00 Dr Takuya Yamamoto** *Tokyo Institute of Technology*  **I76**

**Formation of a Micelle from an Amphiphilic Cyclic Block Copolymer and Determination of the Stability**

**11.00-11.30 Professor Ryan Hayward** *University of Massachusetts Amherst*  **I77**

**Patterning growth with photo-crosslinkable copolymer films**

**11.30-12.00 Dr Guosong Chen** *Department of Macromolecular Science, Fudan University* **I78**

Polymeric vesicles mimicking glycocalyx (PVGs) for studying carbohydrate-protein interactions in situ by dynamic light scattering

**12.00-12.30 Dr Sagrario Pascual** *Université du Maine - Institut des Molécules et Matériaux du Mans* **I79**

**Well-defined amine-reactive polymers: synthesis and reactivity**

**12.30-12.45 Dr Trang Phan** *Aix-Marseille University - Institut de Chimie Radicalaire* **C75**

Free-Standing Nanoporous Materials based on Self-assembled ABA Block Copolymer Micelles

**12.45-1.00 Dr Francisco Fernandez-Trillo** *School of Pharmacy, University of Nottingham* **C76**

Responsive Polymers for Simultaneous Interference with Bacterial Quorum Sensing and Adhesion

**Ensemeble Thursday July 11th**

***Chair: A.B. Lowe***

**10.30-11.00 Dr Cyrille Boyer** *Centre for Advanced Macromolecular Design; UNSW* **I80**

Design of Biodegradable Polymeric Nanoparticles for Delivery of Nitric Oxide. A New Hope for Multi-Drug Resistance in Cancer Treatment

**11.00-11.30 Professor Robert Mathers** *Penn State University*  **I81**

Cascade Strategies for Polymerizing Renewable Diene Monomers

**11.30-12.00 Professor Amitav Sanyal** *Bogazici University*  **I82**

Orthogonally Functionalizable Polymeric Materials

**12.00-12.30 Dr Chris Sammon** *Sheffield Hallam University*  **I83**

The development of fully injectable hydrogels for the treatment of degenerative disc disease

**12.30-12.45 Dr Olivier Colombani** *PRES LUNAM, Université du Maine*  **C77**

Frozen to dynamic self-assembled block copolymers

**12.45-1.00 Professor Jianzhong Du** *Tongji University*  **C78**

Design and synthesis of multifunctional polymeric nanoparticles

**Studio Thursday July 11th**

***Chair: M. Becker***

**10.30-11.00 Professor Ian Hamley** *University of Reading*  **I84**

Self-Assembly of Amyloid Peptide/Polymer Conjugates

**11.00-11.30 Professor Jürgen Groll** *University of Würzburg*  **I85**

Specifically Interacting Biointerfaces 2D vs. 3D: Cell Adhesion and Immune Response

**11.30-12.00 Dr Jonathan Weaver** *Imperial College London*  **I86**

Responsive polymer-stabilised emulsion droplets: New properties and performance

**12.00-12.30 Professor Thomas Junkers** *Universiteit Hasselt*  **I87**

Radical Coupling: Access to midchain functionalized chains

**12.30-12.45 Dr Brett Fors** *University of California*  **C79**

Development of a Photo-Controlled Living Radical Polymerization Process

**12.45-1.00 Dr Jeppe Madsen** *University of Sheffield*  **C80**

Biodegradable stimulus-responsive block copolymers prepared from disulfide-functional cyclic monomers