

MACRO GROUP UK POLYMER PHYSICS GROUP BULLETIN



IOP | Institute of Physics
Polymer Physics Group

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The deadline for contributions for the next
issue is

31 July 2013

Editorial

Welcome to the January edition of the Macro Group and PPG bulletin. Firstly we would like to congratulate our distinguished award winners; Professor Donal Bradley FRS (Imperial College) for the **Founders' Prize** of the Polymer Physics Group, Professor Howard Colquhoun (University of Reading) for the **Macro Group UK Medal** and Dr Matthew Gibson (Warwick University) for the **Macro Group UK Young Researchers Medal**. The Macro Group medals will be awarded at the IUPAC 10th International Conference to be held in Durham in August 2013. Congratulations also to Dr. James Adams (University of Surrey) who is to be the **DPOLY Exchange Lecturer**. He will present a lecture at the March 2013 meeting of the American Physical Society (APS) to be held in Baltimore, Maryland.

Competition for the best 2012 UK PhD thesis in polymer science is still open, applications are encouraged. The winner will be awarded **The Jon Weaver PhD Prize**. We also would like to remind students that they can apply for the **D. H. Richards Memorial bursary**, which is set up to support student travel to meetings. Similarly we would remind students that they can apply for the **Polymer Physics Group Prize for the Best Student Publication**. More details are contained within the bulletin.

Finally we have many notices of forthcoming meetings and we would like to highlight in particular the **YRM and RAPS meetings** dedicated to young scientists entering the field. The first call for the **Polymer Physics Biennial meeting** is issued in this edition. The meeting will be held in Sheffield on 9-11th Sept, 2013.

Thank you to everyone who has contributed an item to this newsletter.

Nathalie Lavignac
Steve Eichhorn
Bulletin Officers

The Pure and Applied Macromolecular Chemistry Group (Macro Group UK) is a joint group of the Royal Society of Chemistry and the Society of Chemical Industry.

The Polymer Physics Group is a joint group of the Institute of Physics and the Royal Society of Chemistry.

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Views from the Top

From the Chairman of Macro Group



Welcome to another Macro Group UK bulletin, I hope that you have all had a relaxing time over the holiday period. The latest Macro Group UK committee meeting was held in November 2012 and hosted by Dr Peter Shaw of Synthomer UK in Harlow. We have a policy of moving the meetings around the country and this one was very different because it gave us the opportunity for a tour around a commercial polymerisation facility. All of us were very impressed with the scale of the operations and also the significant control and safety features that are required on the industrial scale. Certainly, the academics amongst us would very much like to hope that one day one of our own laboratory based discoveries might just make it on to the commercial scale! Speaking of sizes, I can confirm that the safety vest that I was given in the picture below was labelled a size XL! Not everyone was able to be physically present in Harlow but we were able to take advantage of the teleconferencing facilities at Synthomer to ensure that all could input to the meeting. There were two very important items on the agenda that I would like to mention. The first was to ensure that we found an appropriate way to remember our colleague Jon Weaver who was tragically taken from us in July after a short illness. Jon was an outstanding young academic with a tremendous future ahead of him and he was also a very valuable and proactive member of Macro Group UK. He was instrumental in developing and promoting our PhD prize and I am delighted to be able to report that this will henceforth be known as "The Jon Weaver PhD Prize" and will be awarded annually to the author of the best UK PhD thesis in polymer science. I hope that you will support this award and nominate excellent candidates from 2012 before the upcoming deadline – details of this are provided within the bulletin. The second major item of business was to decide upon the recipients of the Macro Group UK medals. We received an excellent set of nominations and I am delighted to report that Professor Howard Colquhoun (University of Reading) was awarded the Macro Group UK Medal for significant and substantial contributions to the development of polymer science in the UK. Also Dr Matt Gibson, (University of Warwick) was awarded the UK Young Researcher's Medal for contributions to polymer science that show outstanding promise for the future. As ever, Macro Group UK is keen to promote the development of new young polymer scientists and so I want to make sure that you are fully aware of the dates for the next Young Researcher's Meeting which will be held on June 24th and 25th at the University of Nottingham, please put the dates in your diary and encourage any young polymer scientists at PhD level or postdoc to come along, participate and present. Finally I'd like to welcome on board our new committee members - I'm delighted to be able to work with such an enthusiastic and pro-active group. You can see a full membership inside. Enjoy reading the bulletin.

Steve Howdle
Chairman Macro Group



From the Chairman of the PPG



2012 was a memorable year for many in the UK, with the combination of Olympics, Paralympics and the Diamond Jubilee providing numerous opportunities for social events and celebrations. 2013 will be a memorable year for the UK's polymer physicists as we collaborate with the wider soft matter community.

New for us in 2013, we welcome Dr Aline Miller as the Group's Honorary Secretary and Treasurer. She was elected to fill the vacancy left by Prof. Nigel Clarke, who stepped down after seven years in the office. I would like to take this opportunity to extend our deep and sincere gratitude to Nigel for his dedicated service. Nigel first joined the Committee in 2003, and ever since he has served the committee with tremendous energy, efficiency and wisdom.

Coming up at the end of March, there will be an Advanced School in Soft Matter, targeted at PhD students and those new to the field. This four-day event is co-sponsored by the IOP's Liquids and Complex Fluids Group. Because of sponsorship by the Groups, the costs for students are low (only about £100!), and it is hoped that finances will not prevent an interested student from attending. The Liquids and Complex Fluids Group has put on an Advanced School for several years (usually as a Winter School), but this will be the first time they have paired up with PPG. We hope that students in PPG take advantage of the opportunity and look forward to hearing reports back from them.

Then, in the late summer, all are invited to gather in Sheffield for the 26th biennial meeting. A highlight of the meeting will be the lecture by the Founders' Prize Winner, Professor Donal Bradley of Imperial College. You can read more about his achievements leading up to this Prize in this issue on page 5. We are now accepting nominations for the Student Prize, which will be awarded at the biennial meeting to the author of the best publication in polymer physics. This is a great way to recognise and encourage our rising stars.

Looking further to the future, next year we are bringing together the larger soft matter and biological physics community for a three-day meeting. The event will be tentatively held at the Institute of Physics with co-sponsorship by PPG and three other groups: Liquids and Complex Fluids; Biological Physics; and Molecular Physics. We have selected some broad themes that are of interest to all four groups:

Self-assembly and patterning

Imaging and optical methods

Mechanical probes and rheology

Each theme will have a keynote and invited speaker. Plans are still being put in place, and we welcome your input. Are there other cross-cutting themes that should be included? There will be more information reported in the next bulletin. With these upcoming events, and with your continued enthusiasm, I think it will be a very good year for Polymer Physics.

Joseph Keddie
Chairman Polymer Physics Group

PPG & Macro Group Committees

Polymer Physics Group Committee

Chair:

Professor Joe Keddie (University of Surrey)

Honorary Secretary and Treasurer:

Dr Aline Miller (University of Manchester)

Ordinary members:

Professor Nigel Clarke (University of Sheffield)

Professor Steve Eichhorn (University of Exeter)

Dr. Martin Buzza (University of Hull)

Dr. Cécile Dreiss (Kings College London)

Dr. Anthony Higgins (Swansea University)

Dr. Mike Jenkins (University of Birmingham)

Dr. Alexei Likhtman (University of Reading)

Dr. Johann de Silva (Trinity College Dublin)

Dr. Tom Waigh (University of Manchester)

John Gearing (Gearing Scientific)

Macro Group Committee

Chairman: Prof. Steve Howdle (University of Nottingham) 2007 - 2013

Secretary: Prof. Rachel O'Reilly (University of Warwick) 2008 - 2013

Treasurer: Dr Lian Hutchings (University of Durham) 2011 - 2014

Ordinary Members:

Dr Carl Waterson (Innospecinc), *Meetings Officer* 2006 - 2014

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Dr Christopher Sammon (Sheffield Hallam University), *Web Site Officer* 2007 - 2014

Prof. Ian Hamley (University of Reading), *EPF Representative* 2008 - 2014

Prof. Rein Ulijn (University of Strathclyde), *Membership Officer* 2009 - 2015

Dr Oren Scherman (University of Cambridge) 2010 - 2013

Dr Dave Adams (University of Liverpool) 2010 - 2013

Dr Andrew Naylor (Critical Pharmaceuticals Ltd.), *Web Site Officer* 2010 - 2013

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Dr Cecile Dreiss (Kings College London) 2011 - 2014

Dr Nathalie Lavignac (University of Kent), *Bulletin Officer* 2011 - 2014

Dr Wim Thielemans (University of Nottingham) 2012 - 2015

Prof. Neil Cameron (University of Durham) 2012 - 2015

Prof. Charlotte Williams (Imperial College) 2012 - 2015

Prof. Cameron Alexander (University of Nottingham) 2012 - 2015

Representative Members:

Representing Society of Chemical Industry:

Prof. Charlotte Williams (Imperial College)

Representing Colloid & Interface Science Groups, RSC and SCI:

Dr Cecile Dreiss (Kings College London)

Representing Materials Chemistry Forum, RSC:

Prof. Stephen Yeates (University of Manchester)

Representing Polymer Physics Group, IoP:

Dr Cecile Dreiss (Kings College London)

Representing Biomaterials Chemistry Group, RSC:

Dr Aline Miller (University of Manchester)

Representing Applied Polymer Science Group, Institute of Materials, Minerals and Mining:

Dr John Gearing (Gearing Scientific Ltd.)

Representing Polymer Degradation Discussion Group:

Dr Mogon Patel (AWE)

Representing Polymer Colloids Forum:

Prof. Peter Lovell (University of Manchester)

Representing RAPS Network:

Dr Steve Edmondson (University of Loughborough)

IOP Institute of Physics

Career Break Grants

The Institute's Career Break Grants help members to stay in touch with the wider physics community.

Contributions towards attendance and associated costs are available.

Members can apply by going to http://www.iop.org/activity/academia/Career_Break_Grants/page_5466.html or by emailing cbg@iop.org

Career Break Rates for Conferences

Members can attend all Institute of Physics conferences at a reduced rate.

Reduced Membership Subscription Rates

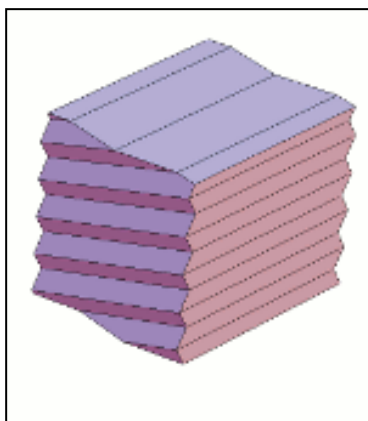
Members on a career break are entitled to a reduced membership subscription rate, which is currently just £10.

Email membership.iop.org, including your membership ID number in the text, to qualify for this rate.

PPG News/Conference Reports

James Adams Named DPOLY Lecturer

The Polymer Physics Group has selected Dr James Adams to be the DPOLY Exchange Lecturer. He will present a lecture at the March meeting of the American Physical Society (APS) to be held in Baltimore, Maryland. There he will speak about his recent work investigating the possibility of creating reversible adhesives using liquid crystal elastomers. This research was carried out with funding from his recent EPSRC grant. James, currently a lecturer at the University of Surrey, won the Early Career Researcher Prize awarded by the Liquids and Complex Fluids Group of the IOP in 2011.



Advanced Photonics Techniques in Soft Matter and Biology 14th January, 2014—Meeting Report



The Fourth Advanced Photonics Techniques meeting on the 14th January 2013 at the IOP building in London was a resounding success. Following on from previous meetings, the overlap between modern developments in photonics and soft-matter physics/biology was explored. A wide range of topics were highlighted including: non-linear Raman Scattering (label free, chemistry specific imaging), len-less imaging (with light, X-rays and electrons), holographic microscopy (swimming of malaria micro-organisms), optical tweezer microrheology (viscoelastic data analysis over the complete frequency range), optical tweezers as a force probe (adhesion forces between cells), two dimensional

waveguides (dynamic adsorption of polyelectrolytes to surfaces), birefringence in amyloid spherulites, terahertz spectroscopy of biological molecules, and plasmonic techniques (ultra high sensitivity of surface adsorption). The talks were all of a high standard and so too were the posters, continuing the tradition set by the previous three meetings.

A long term aim is to promote a two way discourse between optical physicists and people working in the physics, chemistry and biology of soft materials. We believe the meeting was successful in this role. We thus hope to organize another Advanced Photonics Techniques meeting in the near future!



2013 Founders' Prize Awarded to Donal Bradley

The 2013 Founders' Prize will be awarded to Professor Donal Bradley (CBE, FRS, FInstP, FRSA) of Imperial College at the biennial meeting of the Polymer Physics Group (September 9-11, 2013) at the University of Sheffield. A highlight of the meeting will be the Prize lecture.

Professor Bradley is widely considered to be one of the founding fathers of the field of "plastic electronics." His research has opened up new scientific fields, changing the public perception of polymers, while also generating a large income to the UK economy. Beginning with his PhD research in the early 1980s, he has studied the physical properties of polymers.

His experimental investigations have significantly advanced the understanding of the physics of conjugated polymers as semiconductors and helped to demonstrate their widespread applications.

He played a central role in the discovery of conjugated polymer electroluminescence, suggesting the experiment that led to the first observation of light emission in polymers. He undertook the initial characterization of the basic properties of poly(p-phenylenevinylene) light emitting diodes. Prof. Bradley was the corresponding author for the 1990 *Nature* paper reporting the discovery of conjugated polymer electroluminescence. This is the most highly cited paper in the field of molecular electronic materials and devices (with more than 8000 citations). His early work demonstrated that the light emission phenomenon was injection electroluminescence and ascertained that the frequency response was sufficiently fast to permit applications in displays. Today, more than 20 years later, the Samsung Galaxy mobile phone has a polymer LED active matrix display.

His research provides wonderful examples of how fundamental concepts of polymer physics can be exploited for practical applications. His publications have drawn strongly on the core themes of polymer physics with investigations of regioregularity (Kim et al., *Nature Materials* 2006), self-organisation and diffusion effects (Campoy-Quiles et al., *Nature Materials* 2008), phase equilibria and crystallisation (Agostinelli et al., *Adv. Funct. Mater.* 2011; Tsoi et al., *Macromolecules* 2011), thermodynamics of interfaces (Kim et al., *Appl. Phys. Lett.* 2005), self-assembly driven by interfaces (Khodabakhsh et al., *Adv. Funct. Materials*, 2004), polymer morphology development (Ballantyne et al., *Macromolecules* 2010), and confinement effects on polymer dynamics and phase transitions (Campoy-Quiles et al., *Macromolecules* 2006). He has an h-index of 80, with >36,000 citations received from his more than 525 ISI-listed papers. Thus, it is no surprise that he is one of the world's most cited authors in the fields of both physics and materials science, being in the top 1% for both.

In addition to his impressive academic achievements, Professor Bradley is also an entrepreneur. He is a co-founder of Cambridge Display Technology Ltd, a co-founder and Director of Molecular Vision Ltd, and Director of Solar Press Ltd. He has more than twenty five patent families to his name, including the ground-breaking GB patent (PCT/GB90.00584) on the invention of an electroluminescent device comprising semi-conducting polymers.

Professor Bradley has received numerous honours and awards. He was awarded the prestigious Faraday Medal in 2010 from the Institution of Engineering and Technology and also the Faraday Medal from the Institute of Physics in 2009. He was elected a Fellow of the Royal Society in 2004 and a Fellow of the Institute of Physics in 2005. He delivered the Royal Society Bakerian Lecture in 2010 and the IOP Mott Lecture in 2009. He is currently the Lee-Lucas Professor of Experimental Physics and Director of the Centre for Plastic Electronics at Imperial College London.

Previous Award Winners Polymer Physics Group

Founders' Prize

2011: Professor Tom McLeish (Durham)

2009: Professor Dame Athene Donald (Cambridge)

2007: Professor Alan Windle (Cambridge)

2005: Professor Dame Julia Higgins (Imperial)

2003: Professor David Bassett (Reading)

2001: Professor Sir Sam Edwards (Cambridge)

Best Student Paper Prize

2012: Katherine Thomas (Cambridge)

2010: Rita La Spina (Sheffield)

2008: Tao Wang (Surrey)

DPOLY Lectureship

2011: Professor Giuseppe Battaglia (Sheffield, UK)
Professor Brad Olsen (MIT, USA)

2009: Dr Aline Miller (Manchester, UK)
Professor Connie Roth (Emory, USA)

MacroGroup UK Awards

MACRO Group Medal Awards Announced***Macro Group UK Medal***

The Macro Group UK Medal is awarded annually to a UK based scientist who has made a significant and substantial contribution to the development of polymer science through his/her scientific achievements and/or services to the UK polymer science community.

This year the award has been made to **Professor Howard Colquhoun** (Department of Chemistry, University of Reading).



Prof. Howard Colquhoun

Prof. Colquhoun received his PhD from the University of London in 1975 and was awarded the degree of Doctor of Science of the University of Cambridge in 2008 for his published research in materials chemistry. He is one of the most creative and innovative polymer scientists in the world. His work has focused mainly on the design, synthesis, and structural/functional characterisation of high performance aromatic polymers for application in the fields of composite aerospace materials, proton transport membranes for fuel cells, and membranes for water purification by nanofiltration and reverse osmosis. Most recently he has pioneered highly innovative research into supramolecular polymers with self-healing characteristics, and also supramolecular systems for storing and reading polymer-sequence information at the molecular level. Awards for his research include the RSC

Medal and Prize for Materials Chemistry (2006), the Royal Society Leverhulme Senior Research Fellowship (2007) and the Wilsmore Fellowship of the University of Melbourne (2007). He has served on numerous scientific committees and advisory boards, including those of Macro Group UK and the RSC Materials Chemistry Division, and on the organising committees and advisory boards of several recent international conferences. He is currently President of the Materials Chemistry Division of the RSC (2012 - 2015).

Macro Group UK Young Researchers Medal

The Macro Group UK Young Researchers Medal is awarded annually to a UK-based scientist, normally under the age of 36 on December 31st of the preceding year, whose contributions to polymer science show outstanding promise for the future.

This year award has been made to **Dr. Matthew I. Gibson** (Department of Chemistry, University of Warwick).



Dr. Matthew I. Gibson

Dr Matthew Gibson obtained his PhD in 2007 from the University of Durham and followed this with a post-doctoral period at EPFL Lausanne. In 2009, he was awarded a prestigious Science City Research Fellowship at the University of Warwick and has subsequently been promoted to Senior Research Fellow (2011) and Assistant Professor (2012). His research group is developing and applying novel macromolecular approaches to address biological systems, with a focus on healthcare challenges. He has made significant contributions in the study of carbohydrate-protein interactions and the design of environmentally responsive materials. Major areas of his research include the detection and inhibition of bacterial toxins, biochemically responsive polymers for targeted delivery and novel cryopreservatives inspired by antifreeze proteins. Much of this work has real

world applications and has resulted in several patent filings. Matthew is currently secretary of the Recent Appointees in Polymer Science network and sits on the RSC Carbohydrate Group executive committee as well as being on the organising committee of several national/international meetings.

MacroGroup UK Awards

The 2012 Macro group medals will be awarded at the **IUPAC 10th International Conference on Advanced Polymers via Macromolecular Engineering (APME 2013)** to be held in Durham from August 18th to 22nd 2013

The meeting will be organised and hosted by the Durham Centre for Soft Matter. The focus of the meeting will be on recent advances in polymer chemistry, polymer synthesis and polymer characterisation and the scope of the meeting will include. please contact I.r.hutchings@durham.ac.uk or visit the conference website:

<http://www.dur.ac.uk/soft.matter/apme2013/>



Macro Group UK Medal for Outstanding Achievement *

2012 M. Sawamoto
 2010 C. J. Hawker
 2008 M. Antoinetti
 2006 J.M.J. Fréchet
 2005 K. Matyjaszewski
 2004 P. Hodge
 2003 A.B. Holmes
 2002 D.C. Sherrington
 2001 J.M.G. Cowie
 2000 J.C. Bevington

Macro Group UK Medal

2012 H. Colquhoun
 2011 A. Cooper
 2010 I. A. Manners
 2009 A. J. Ryan
 2008 S.M. Howdle
 2007 S.P. Armes
 2006 D.M Haddleton

Macro Group UK Young Researchers Medal

2012 M. Gibson
 2011 I. Kinloch
 2010 J.V.M. Weaver
 O.A. Scherman
 2009 A. P. Dove
 2008 A.F. Miller
 R.K O'Reilly
 2007 R.V. Ulijn
 2006 S. Périer

Jon Weaver PhD Prize

2011 K. Kirkham

* previously known as the Macro Group UK Lectureship and Medal (1997-2005)

Full list of winners available from MGUK web site:
<http://www.macrogroup.org.uk/>

Conference Reports



Nanopeptide 2012: Peptides as Nanomaterials & BioMaterials

Manchester, November 12 - 14, 2012
Dr Stephen Hoare t/a Peptide Conferences
Orchard Bank, Fisher Lane, Bingham,
NOTTINGHAM NG13 8BQ, UK
T: +44 1949 839586 / E:info@nanopeptide2012.org / W: www.nanopeptide2012.org

The Nanopeptide 2012 conference attracted 90 delegates and speakers and covered all aspects of peptide biomaterials, from physics and biophysics, through chemical and analytical techniques, through to biomedical applications. The conference was held from November 12 – 14, 2012 at the Manchester Institute of Biotechnology (MIB), University of Manchester under the auspices of the European Peptide Society, the Macro Group UK, the British Biophysical Society and the Protein & Peptide Science Group of the Royal Society of Chemistry. The conference was organised by Stephen Hoare (Peptide Conferences) and the programme committee was Aline Miller (Manchester), Louise Serpell (Sussex) and Rein Ulijn (Strathclyde).

The meeting began with an excellent keynote lecture from David Kaplan (Tufts University, USA) who set the scene with his talk on “Silk Peptides in Block Copolymers for Structure-Process-Property Relationships” featuring his work on silk-based block copolymers to address the challenge of synthesis, processing and structure/function. Several of the themes covered in his talk were taken up by other speakers on subsequent days. After David Kaplan’s lecture everyone enjoyed a welcome reception that set the tone for the friendly nature of the meeting.

The second day began with a session on ‘Peptide Design’ during which Dek Woolfson (Bristol, UK) described his work in designing a ‘peptide toolkit’ for use in assembling large structures. This was followed by four talks on peptide fibrils and nanotubes. Jeff Hartgerink (Rice University, USA) described his ‘Collagen Design Engine’, a simple genetic algorithm which utilizes pairwise interactions to generate sequences of stable collagen heterotrimers and Louise Serpell (Sussex, UK) talked about her work in designing functional materials based on normally pathological amyloid fibrils. Vince Conticello (Emory University, USA) discussed the fundamental interactions driving the formation of peptide nanotubes from coiled-coil assemblies.

The next session, ‘Peptide Biomaterials and Tissue Regeneration’ addressed perhaps the most exciting area of biomedical application of peptide biomaterials. There were seven talks, either side of lunch that covered a range of applications such as peptide assemblies as cell scaffolds and immune adjuvants (Joel Collier, University of Chicago, USA) or the use of elastin-based protein and peptide scaffolds to promote cell attachment, proliferation and tissue repair in 3D (Tony Weiss, University of Sydney, Australia). Aline Miller (University of Manchester, UK) took the design rules described in the first session as the basis of her group’s work on rules for introducing bioactivity and responsiveness into the gelled state of self-assembled peptide fibrils that have applications in regenerative medicine. Thomas Scheibel (Universität Bayreuth, Germany) described their methods for bioengineering spider silk proteins that took recombinant proteins mimicking natural silk and developed spinning techniques to produce protein threads closely resembling natural spider silk fibres.

After the afternoon coffee break, Hiroshi Matsui (Hunter College, CUNY, USA) talked about re-configurable 3D superstructures made from collagen peptides and metal nanoparticles that were used as the basis of autonomous biochemical motors. This session, ‘Peptide Interactions with Materials & Nanomaterials’, also featured a range of other contributed talks.

Conference Reports

A highlight of the meeting was the poster session that brought day 2 to a close. There were 40 posters, most of which were competing for the poster prize for young researchers sponsored by the Protein & Peptide Science Group of the Royal Society of Chemistry. The five poster judges had a difficult task and commented on the exceptionally high standard of the posters. In the end, a winner was chosen and, at the end of the meeting a cheque for £100 was presented to Marion Limo of Nottingham Trent University, UK for her poster "Peptide Templated Morphology Modification and the Application of Isothermal Titration Calorimetry (ITC) Towards an Understanding of Peptide-Mineral Interactions".

The first session on day 3, 'Dynamic Peptide Systems & Self-assembly' should have started with a talk from Rein Ulijn (University of Strathclyde, UK) but, unfortunately, he was taken ill overnight and had to return home. Happily, he is recovered, but his presence at the meeting was missed. Gonen Ashkenasy (Ben Gurion University, Israel) spoke a little earlier than planned and described his work on two replication systems, one based on coiled-coils, the other on β -sheets. Other talks in this session included contributions from Alvaro Mata (Parc Cientific Barcelona, Spain), Jason Kalapothakis (University of Edinburgh, UK), Meital Rechtes (Hebrew University of Jerusalem, Israel), Anders Augderhorst-Roberts (University of Cambridge, UK) and Marta Oxczarz (ETH Zürich, Switzerland).

A busy morning was brought to an end by a session on 'Peptide Hydrogels'. Joel Schneider (National Cancer Institute at Frederick, USA) described how hydrogels made from self-assembling β -hairpin peptides that were designed to encapsulate therapeutics were found to have inherent anti-bacterial activity. Bing Xu (Brandeis University, USA) discussed the use of enzymes to instruct the self-assembly of small peptides and other bioactive molecules for hydrogelation that can take place in vitro or in vivo and extra- or intra-cellular.

After lunch, the session on 'Peptide / Polymer Interactions' featured a talk by Hans Börner (Humboldt-Universität zu Berlin, Germany) on the programming and regulating the self-assembly of peptide-polymer conjugates and one by Ian Hamley (University of Reading, UK) on the self-assembly and biomedical applications of peptide / amyloid copolymers.

A final session on 'Peptide Nanostructures for Opto/Electronic Applications' featured just one talk, from Mariano Venanzi (University of Rome Tor Vergata, Italy) on photocurrent generation by self-assembled monolayers formed by conformationally constrained peptides functionalized with antenna chromophores and covalently linked to gold electrodes. It is hoped to be able to cover more of this subject in the future.

The conference was marked not just by the excellence of the invited speakers, but also by the active participation of many young researchers. The MIB proved to be a great location for a meeting of this size; although the double-screen of the lecture theatre proved challenging for some speakers, the layout of the venue and the timing of the programme allowed for much productive informal discussion. The response of speakers delegates was universally positive and the organizer and programme committee are already looking forward to Nanopeptide 2014.

The organizer would like to thank the various learned societies under whose auspices the conference was held for their support and encouragement as well as to the PPSG of the Royal Society of Chemistry for their sponsorship of the Poster Prize and the EPS for financial support.

A meeting held under the auspices of the British Biophysical Society, Macro Group UK, Protein & Peptide Science Group of the Royal Society of Chemistry and supported by the European Peptide Society.



British Biophysical Society

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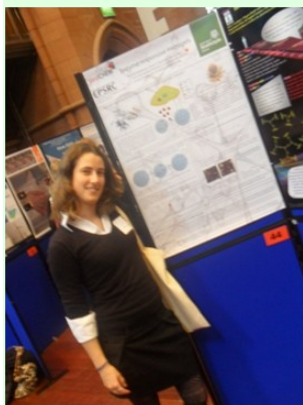


Programme Committee: Dr. Aline Miller (Manchester), Prof. Louise Serpell (Sussex), Prof. Rein Ulijn (Strathclyde).

Bursaries & Conference Reports

MacroGroup UK International Conference on Polymer Synthesis and UKPCF International Conference on Polymer Colloids

Warwick, July 9th - 12th 2012

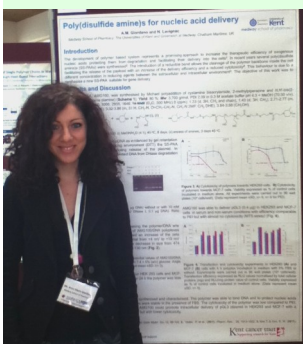


This year the University of Warwick hosted The MacroGroup UK International Conference on Polymer Synthesis and UKPCF International Conference on Polymer Colloids. The conference was held over 4 days at the University's Art centre where 550 participants could enjoy innovative lectures that covered a broad area of expertise in material science. It addressed novel synthetic routes for the preparation of polymers, advanced characterisation techniques and applications in biomedicine, pharmaceuticals and healthcare systems. It also considered biobased and biorelated polymeric materials and their applications. The talks were organised in parallel sessions including fifteen plenary lectures and over eighty invited speakers. The lectures were delivered by the most respected chemists:

Whitesides, Hawker, Matyjaszewski, Sawamoto, just to name a few. It

was a very enriching experience and stimulating ambiance for young researchers. Thanks to the organizing committee, there was a very enjoyable social program including a pub quiz, cheese and wine at the Kenilworth Castle and a pub crawl in Leamington Spa that allowed social and scientific networking. There was also a choice of excursions including Warwick castle, Stratford upon Avon and Kenilworth Castle. At the banquet the MacroGroup Medals were awarded: The MacroGroup UK Medal for Outstanding Achievement to Prof. Mitsuo Sawamoto, the MacroGroup UK Medal to Prof. Andrew Cooper and the MacroGroup UK Young Researchers Medal to Dr Ian Kinloch. The evening was concluded with the wonderful performance of the Polymer chemistry rock band. Overall it was a great experience where the participants could enjoy a great scientific and social time. I presented a poster entitled "Enzyme responsive microgels", in which I showed part of my PhD work. The presentation triggered useful discussions with other PhD students and researchers that gave me new ideas for my further work. The conference was very inspiring and gave me the opportunity to network with other people that are doing similar experiments. ***I am very grateful for the D. H. Richards Memorial Bursary award that allowed me to participate at this valuable conference.***

Daniela Kalafatovic (University of Strathclyde)



I found the entire conference very interesting. There were talks on a very broad range of topics from the polymer chemistry to the development of nanosystems for biomedical applications. The presented works allowed me to gain new knowledge about the recent advances in different field of research, especially in biomaterials that constitute my field of interest. Poster sessions were very informative and offered a great opportunity for networking. I was really delighted to have the opportunity to present a poster on my research. This gave me the opportunity to share my work with other researchers and exchange ideas. I liked the different social activities organised, they allowed people meeting from all around the world. On the

whole, I found the conference really enjoyable with a friendly and relaxing atmosphere. ***I would like to thank the MacroGroup UK for the DH Richards Bursary which allowed me to live this great experience and also all the organiser for making this conference so valuable.*** Finally, I would like to thank the Kent Cancer Trust who is funding my PhD studentship.

Anna Maria Giordano (University of Kent)

Bursaries & Conference Reports

244th ACS National Meeting and Exposition

19th-23rd August 2012, Philadelphia



The 244th ACS National Meeting was held in Philadelphia and had the theme of 'Materials for health and medicine'. The Polymer Chemistry and Polymeric Materials Science and Engineering divisions ran parallel symposia throughout the week covering a wide range of subjects, the total number of oral presentations exceeded 600 so we really were spoilt for choice!. Of particular interest to me was the Journal of Polymer Science Award symposium in honour of Christopher Bielawski which provided a fascinating afternoon of talks from an array of excellent speakers including Robert Grubbs and Ludwik Leibler. The joint POLY and PMSE poster session was held mid-way through the week and provided a great opportunity to meet

students and early stage researchers from all over the world and all corners of polymer science. A steady supply of beer and pizza sustained an enjoyable evening of scientific discussion and networking. Philadelphia itself was a very welcoming city to visit. Its historic importance in the story of American independence provided some very interesting sightseeing, including the famous Liberty Bell. I presented my own work in a 'general topics' symposium; sonochemical production of hollow polymer microspheres for temperature responsive delivery. I really enjoyed this opportunity to promote my work and receive new input from others during the question and answer session, which I will now capitalise on in the final stages of my PhD studies. ***I would like to thank Macro Group UK for the generous bursary award which made it possible for me to travel to such an exciting and inspiring conference.***

Emily Skinner (University of Bath)

D H Richards Memorial Bursaries (Macro Group UK)

- Are you:**
- student member of Macro Group UK?
 - desperate to go to an important conference?
 - short of all the funding needed?

then the DH Richards Memorial Bursaries scheme can help you!

About the bursaries

Macro Group set up the bursaries as a memorial to D H Richards, who was one of the founding officers of Macro Group and worked hard to establish it as a major group in the UK. Under this scheme, Macro Group sets aside funds each year to support its student members that wish to attend a scientifically-important conference, but are short of funds to make this happen. Only one student from a particular department/school will be granted a bursary in any application round. The applicant must be a current Macro Group member, have their supervisor's support, and be planning to make an oral or poster contribution at the conference. It is expected that part of the funds needed to attend the conference will be obtained from other sources. A particular student can only receive one bursary award during their period of study. Maximum amounts awarded will be: £250 for an international conference; £150 for a European conference; £100 for a UK conference. A condition of receiving a bursary award, is that the student will be required to write a short conference report (including a photo with an invited speaker) for publication in the *Bulletin*.

How to apply

Application forms can be obtained from the Macro Group Secretary, Rachel O'Reilly, by sending an email request to: r.k.o-reilly@warwick.ac.uk The *completed application form must be sent by the applicant's supervisor* (to confirm their support of the application) via email to Rachel O'Reilly in accord with the following two deadlines - 1 November and 1 May. Decisions will normally be announced less than 4 weeks after the deadline.

Competitions Announcement

The Jon Weaver PhD Prize 2012

MacroGroup UK are delighted to announce a new prize – **The Jon Weaver PhD Prize sponsored by Synthomer** – directed at rewarding the best PhD students in the field of Polymer Science in the UK. The prize will be awarded to a PhD student who has displayed an outstanding ability across a range of criteria throughout their PhD. The recipient will receive a certificate and will be invited to deliver a prize lecture.

Nominations

The Macro Group UK PhD Prize is open to scientists who have received their PhD from a UK-based institution. Self-nomination is acceptable, however nominations should consist of:

- 1) A covering letter from the nominee (1 page maximum) describing how the nominee fits the selection criterion;
- 2) A letter from the PhD supervisor on headed paper (1 page maximum)
- 3) A letter from the external examiner of the thesis (examiners report is NOT submissible)
- 4) Copy of the letter of award from the University (stating the date of award)
- 5) Thesis abstract
- 6) A brief (1 - 4 page) CV of the nominee including publications list.

The prize will be judged by a sub-committee considering the following criteria:

- Award of PhD between 1st January and 31st December 2012
- Evidence of transition to independence
- Fit to MacroGroup UK remit
- Quality and quantity of publications/outputs
- Novelty of Work
- Communication of Science
- The student MUST be a member of MacroGroup to be eligible



Applications must be sent electronically to Dr Dave Adams : d.j.adams@liverpool.ac.uk prior to the deadline. Late submissions will not be accepted.

Closing date: **30th March 2013, midnight.**

Polymer Physics Group Prize for the Best Student Publication

The Polymer Physics Group (PPG) is pleased to announce that applications are now being accepted for a prize to recognise the most outstanding publication by a PhD student on a subject within the PPG's remit. The prize winner will receive a monetary award and will also be invited to present a lecture at the next Polymer Physics Group Biennial Meeting on 9-11 September, 2013 at the University of Sheffield.

Criteria

The prize will be awarded for the best publication in a journal on a topic of relevance to polymer physics, as judged by the awards committee. The scientific quality, originality and significance of the research will be considered. The nominee must be an author or co-author of the publication. The research reported in the publication must have been carried out as part of the *PhD research* of the applicant. The publication must be publicly available, either on a journal website or in printed format, and the date of publication (as stated by the journal) must be *after* 30 April, 2011. Manuscripts in preparation or under review will *not* be considered for the prize.

Application Procedure

The application for the prize will consist of three items:

- (1) A paper or electronic copy of the publication in a journal.
- (2) A signed letter (on University letterhead) from the supervisor of the PhD student confirming that the research was carried out by the applicant as part of PhD research.
- (3) A statement from the applicant (or nominee) outlining the significance of the publication.

The application should be submitted to the PPG Honorary Secretary, Dr. Aline Miller (Manchester Institute of Biotechnology, University of Manchester, 131 Princess Street, Manchester M1 7DN; e-mail:

Aline.Miller@manchester.ac.uk). Applications must be received by **30 April, 2013**. Applicants should separately submit an abstract for their oral presentation on the IOP Conference website (<http://paps13.iopconfs.org>) in the usual way.

Forthcoming Meetings & Conferences



RSC/SCI Macro Group MacroGroup Young Researchers Meeting

June 24-25, 2013

University of Nottingham

School of Chemistry, School of Pharmacy and Department of Chemical
and Environmental Engineering

Macro Group is committed to holding meetings to develop the UK polymer science community. This very important meeting allows younger researchers from all areas of polymer science to mix and learn, and, in some cases, give their first external oral or poster presentations. With support from our sponsors, we are holding the YRM and overnight social gathering at the University of Nottingham in June and we would like to encourage representation from all polymer science groups across the UK and other European countries.

There will be three keynote lectures from established polymer scientists as well as presentations from Younger Members of MacroGroup. All attendees are encouraged to present a poster to showcase their work. This year's **keynote lectures** will be given by **Prof. Filip du Prez** (University of Ghent, Belgium), **Prof. Charlotte Williams** (Imperial College London), and **Dr. Guiseppe Mantovani** (University of Nottingham).

Registration information will shortly be posted on the MacroGroup UK web site (<http://www.macrogroup.org.uk/>) and flyers containing all information will be distributed.

Organiser: **Dr. Ir. Wim Thielemans**, University of Nottingham (Wim.Thielemans@nottingham.ac.uk)

Advanced School in Soft Condensed Matter: "Solutions in the Spring"

Sunday, 24 March – Wednesday, 27 March 2013

Weetwood Hall, Otley Road, Leeds, LS16 5PS, UK

The aim of this School is to provide a comprehensive foundation for researchers in the field of liquids and complex fluids and polymers. The lectures will introduce key topics of current interest together with the theoretical, experimental and computer simulation approaches used to address them. The School is directed towards postgraduate students from a wide range of backgrounds including physics, chemistry, chemical engineering and biophysics. The Polymer Physics Group has nominated Dr Daniel Read to speak about polymer dynamics at the Advanced School.

The costs are being kept low because of the co-sponsorship from the STFC Centre for Molecular Structure and Dynamics, Polymer Physics Group and the Liquid and Complex Fluids Group. Unilever will be offering a poster prize.

To register, contact Kirsty Orr in the IOP Conferences office (e-mail: kirsty.orr@iop.org; telephone: 020 7470 4800)

Forthcoming Meetings & Conferences

DARWIN CONVENTION CENTRE
NORTHERN TERRITORY
7-10 JULY 2013



ABSTRACT SUBMISSIONS & REGISTRATIONS NOW OPEN!

INVITED SPEAKERS INCLUDE:

Prof Cameron Alexander (University of Nottingham, UK)
Prof Luc Averous (Université de Strasbourg, France)
Prof Anna Balazs (University of Pittsburgh, USA)
Prof Paul Dastoor (University of Newcastle, Australia)
A/Prof Cecile Dreiss (King's College London, UK)
Prof Maria Forsyth (Deakin University, Australia)
Prof Bob Gilbert (University of Queensland, Australia)
Dr Leo Hyde (DuPont, Australia)
Prof Ludwik Leibler (ESPCI Paris Tech, France)
Prof David Lewis (Flinders University, Australia)
Prof Zi-Chen Li (Peking University, China)

Prof Jean-Francois Lutz (Université de Strasbourg, France)
Prof James McGrath (Virginia Tech, USA)
Prof Axel Muller (University of Bayreuth, Germany)
Prof Shigeru Okamoto (Nagoya Institute of Technology, Japan)
Prof Sebastian Perrier (University of Sydney, Australia)
Prof Theresa Reineke (University of Minnesota, USA)
Prof Judy Riffle (Virginia Tech, USA)
Prof Mitsuo Sawamoto (Kyoto University, Japan)
Prof Holger Schönherr (Universität Siegen, Germany)
Prof Brent Sumerlin (University of Florida, USA)
A/Prof Erica Wanless (University of Newcastle, Australia)
Prof Yanlei Yu (Fudan University, China)

PROGRAM AT A GLANCE

Sun 7 July 2013	Sessions & Welcome Reception
Mon 8 July 2013	Conference Sessions and Poster Presentations
Tues 9 July 2013	Conference Sessions
Wed 10 July 2013	Sessions and 34APS Dinner

Please visit the symposium website for updated information on themes, abstract submission, invited speakers and symposium program.

WWW.34APS.ORG.AU

Forthcoming Meetings & Conferences

11th International Conference on Materials Chemistry (MC11)

8 – 11 July 2013

University of Warwick, UK

In the 20th year of this international Materials Chemistry conference series, MC11 will bring together researchers from across this exciting field to discuss four key areas of application of materials chemistry.

Conference Themes

- Biomaterials
- Electronic, Optical & Magnetic Materials
- Energy Materials
- Environmental Materials

Scientific Committee

Dr Andrew Dove (co-chair)
University of Warwick

Professor Richard Walton (co-chair)
University of Warwick

Professor Ian Hamley
University of Reading

Professor Neil McKeown
University of Cardiff

Dr Neil Robertson
University of Edinburgh

Dr Stephen Skinner
Imperial College London

Plenary Speakers

Professor Robert Cava
Princeton University

Professor Andy Cooper
University of Liverpool

Professor Claire Grey FRS
University of Cambridge

Professor Alan Heeger
University of California, Santa Barbara
(Chemistry Nobel Laureate 2000)

Professor Allan Hoffman
University of Washington

Professor Samuel Stupp
Northwestern University

Key dates

Oral abstract deadline – 9 November 2012

Early bird and poster abstract deadline – 10 May 2013

Standard registration deadline – 7 June 2013

Forthcoming Meetings & Conferences



10th IUPAC International Conference on Advanced Polymers via Macromolecular Engineering.

August 18th – 22nd 2013, Durham University

The 10th International Conference on Advanced Polymers via Macromolecular Engineering (APME 2013) will be held at Durham University in the UK from **18th to 22nd August 2013**, organised and hosted by the Durham Centre for Soft Matter. APME 2013 will be the latest in a series of successful meetings, the most recent of which were held in Cappadocia (Turkey) (2011), Dresden (2009) and Miami (2007).

The focus of the meeting will be on recent advances in polymer chemistry, polymer synthesis and polymer characterisation and the scope of the meeting will include.

If you would like further information or to be added to our mailing list to receive updates on registration, please contact l.r.hutchings@durham.ac.uk or visit the conference website <http://www.dur.ac.uk/soft.matter/apme2013/>

Speakers include

Katharina Landfester (Germany)	Michael Silverstein (Israel)
Craig Hawker (USA)	Takeshi Endo (Japan)
Mitsuo Sawamoto (Japan)	Cameron Alexander (UK)
Kris Matyjaszewski (USA)	Alan Tonelli (USA)
Andy Cooper (UK)	Judit Puskas (USA)
Ludwig Liebler (France)	Stephane Carlotti (France)
Chris Ober (USA)	Charlotte Williams (UK)
Chao Gao (China)	Tanya Weil (Germany)
Steve Rimmer (UK)	Andreas Kilbinger (Switzerland)
Brigitte Voit (Germany)	Katja Loos (Holland)
Rachel O'Reilly (UK)	
Taihyun Chang (South Korea)	
Holger Frey (Germany)	
Jean-Francois Lutz (France)	
Ian Manners (UK)	
Yusuf Yagci (Turkey)	
Steve Armes (UK)	
Filip Du Prez (Belgium)	
Sebastian Perrier (Australia)	
Howard Colquhoun (UK)	
Thomas Epps (USA)	
Christopher Barner-Kowollik (Germany)	
Eva Malmström Jonsson (Sweden)	
Costas Patrickios (Cyprus)	
Wolfgang Binder (Germany)	
Albena Lederer (Germany)	

We thank our sponsors!



Forthcoming Meetings & Conferences

Self-Assembly of Biopolymers: Faraday Discussion 166

16-17 September 2013
University of Bristol, UK



Themes

- Self-assembly of polymer/protein conjugates or polymer/virus conjugates
- DNA condensation using polyelectrolytes
- Self-assembly of polymersomes
- Self-assembly of carbohydrate/glyco polymer hybrid materials

Key Dates

Oral abstract deadline	23 November 2012
Poster abstract deadline	19 July 2013
Early bird registration deadline	19 July 2013
Standard registration deadline	16 August 2013

Invited Speakers

Samuel Stupp (*Introductory*),
Northwestern University, USA
Cameron Alexander (*Closing*)
University of Nottingham, UK
Carlos Alemán, UPC Barcelona, Spain
Hans Börner,
Humboldt University of Berlin, Germany
Jeroen Cornelissen,
University of Twente, The Netherlands
Mustafa Güler, Bilkent University, Ankara, Turkey
Jeffrey Hartgerink, Rice University, USA
Sébastien Lecommandoux
University of Bordeaux, France
Raffaele Mezzenga, ETH Zurich, Switzerland
Maité Paternostre, CEA Saclay, France
Cyrus Safinya,
University of California at Santa Barbara, USA

RSC Publishing

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POLYMERS @ INTERFACES 2013

An International Conference to Celebrate the Career of Professor Terence Cosgrove

27 & 28 June 2013, Armada House, Bristol, UK

Preparations for this exciting event are now well in hand and we expect to open registrations early in 2013. Keep a look out for our email announcement in the New Year, or visit:

www.colloidsgroup.org.uk

The following speakers are confirmed: Martien Cohen Stuart (Wageningen), Peter Dowding (Infineum), Cecile Dreiss (King's College London), Peter Griffiths (Greenwich), John Hone (Syngenta), Andrew Howe (Schlumberger), Paul Luckham (Imperial College), Martin Murray (AkzoNobel), Robert Pelton (McMaster), Robert Richardson (Bristol), Peter Stilbs (KTH Stockholm), John Webster (ISIS), Stuart Whittington (Toronto), and Ali Zarbakhsh (Queen Mary College).

We are also pleased to acknowledge the generous support of AGC Chemicals, AkzoNobel, Drug Delivery Solutions, Infineum, Imerys, Revolymer, STFC ISIS Facility, Syngenta and Unilever. In addition, the conference dinner will be preceded by a reception sponsored by XiGo Nanotools.

Organising committee:

Jeroen van Duijneveldt, Peter Griffiths, Brian Vincent, Stephen King

Forthcoming Meetings & Conferences

**Recent Appointees in
Polymer Science****14th Annual Meeting****4th – 6th September 2013
The University of Manchester**

Generously sponsored by:

**Agilent Technologies****SIGMA-ALDRICH****MANCHESTER**
1824

The University of Manchester

RAPS brings together academic and industrial researchers in polymer science at the beginning of their careers (with at least one year postdoctoral or industrial experience).

Our conferences offer ideal and informal opportunities for knowledge transfer, discussion, networking, collaboration, sharing experiences and career development.

For more information, visit our website or contact:

Dr Jonathan M Behrendt, School of Chemistry,
University of Manchester, M13 9PL
jonathan.behrendt@manchester.ac.uk Tel: 07970 482646

<http://www.raps.org.uk>

Forthcoming Meetings & Conferences

Physics of Life Network *Graham Leggett, Sheffield University*

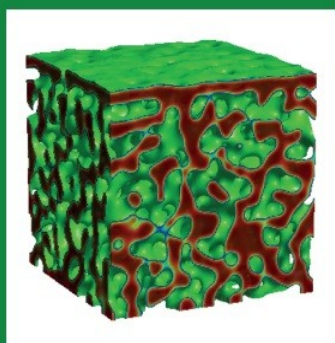
"Understanding the Physics of Life" was one of four themes identified by the Physics Community as Grand Challenges for EPSRC's Physics Programme. Our proposal, "From Molecules to Systems" addresses grand challenge that is right at the centre of modern biology: the problem of integrating understanding of biological behaviour across the length scales, from the molecular to the systems level. Biochemists apply reductionist methodology to develop highly detailed understanding of biological systems at the molecular level, and systems biologists are trying to develop approaches to modeling whole systems, but there is no framework to bring the two together in an integrated fashion.

Physicists have an important contribution to make to this, because they have many years experience of tackling similarly difficult cross-length-scale challenges: the integration of quantum theory and general relativity was one of the grand challenges of 20th century science, and statistical mechanics provides a link from molecular scale phenomena to the behavior of large ensembles of molecules. The insights springing from these accomplishments, together with new tools, both experimental and theoretical, can help to solve the problem of integration biological understanding from the molecular to the systems level.

The most important goal of the Network will be to crystallize new partnerships between physicists and biologists, leading to successful applications to EPSRC. A launch meeting, on April 8, will include a plenary address by Sir Tim Hunt, winner of the 2001 Nobel Prize for Medicine, and will also showcase some of the best work in biological physics in the UK. There will be three plenary meetings, addressing broad cross-length-scale challenges (The Living Cell, July 22/23, 2013; Synthetic Biology September 5/6, 2013; and Multicellularity, January 8/9, 2014), and a larger number of focused workshops, whose themes will be defined by the community. There will be a variety of other activities, including summer schools and other activities designed to train and inspire the next generation of biological physicists.

Please get involved! For more information, see www.physicsoflife.org.uk.

First announcement



Physical Aspects of Polymer Science

9–11 September 2013
The University of Sheffield, UK

Organised by the IOP Polymer Physics Group

www.iop.org/conferences

IOP Institute of Physics

First announcement

The 26th meeting of the Polymer Physics Group, held at the University of Sheffield, provides an opportunity for researchers from both academia and industry to discuss the latest innovations in understanding and manipulating the physical behaviour of a wide range of polymeric systems.

Abstract submission is now open

Contributions for oral and/or poster presentations are invited. Abstracts of a maximum of 250 words should be submitted online by 3 May 2013 as a file upload submission.

To submit an abstract, please visit paps13.iopconf.org and follow the online instructions.

Venue and accommodation

The conference will be held at The Ridge at Ranmoor Village, part of the University of Sheffield. More information about the conference venue can be found at: withus.com/conference/withus/venues/the-ridge

A limited number of single occupancy ensuite rooms will be available in Endcliffe Village at the University of Sheffield. Further information regarding accommodation and booking will be available in May 2013.

Registration

Information regarding registration will be made available in May 2013. If you would like to register your interest for this event and receive an e-mail when registration is available, please contact conferences@iop.org with your name and reference the 'Physical Aspects of Polymer Science'.

Key dates

Abstract submission deadline:	3 May 2013
Early registration deadline:	8 August 2013
Registration deadline:	2 September 2013

Invited Speakers

- **Werner Blau**, Trinity College Dublin, Republic of Ireland
- **Jan Genzer**, North Carolina State University, USA
- **Karin Jacobs**, Universität des Saarlandes, Germany
- **Sébastien Lecmannoux**, University of Bordeaux, France

2013 Founders' Prize Lecturer

- **Donal Bradley**, Imperial College London, UK

Sponsorship and exhibition opportunities

If you would like the opportunity to promote your organisation to attendees of this conference (these include decision makers, scientists, students and community members) please contact the conference organiser, Amy Fitzgerald, at amy.fitzgerald@iop.org for further information.

Enquiries

Amy Fitzgerald, Conferences Department, Institute of Physics, 76 Portland Place, London W1B 1NT, UK
 Tel: +44 (0)20 7470 4984
 E-mail: amy.fitzgerald@iop.org

Forthcoming Meetings & Conferences

Date(s)	Title and Location	Organiser
7-11 April 2013	245th ACS National Meeting & Exposition Spring 2013, New Orleans, Louisiana	James N. Seiber http://portal.acs.org/portal/acs/corg/content
21-23 May 2013	Third International Symposium - Frontiers in Polymer Science, Sitges, Spain	Symp Chairs Stephen Z.D. Cheng, Univer- sity of Akron, USA
16-21 June 2013	European Polymer Congress - EPF 2013, Pisa (Italy)	Giancarlo Galli Chair, EPF 2013 http://www.epf2013.org
24-25 June 2013	Young Researchers Meeting (YRM) 2013, University of Nottingham	Wim Thielemans (University of Nottingham)
27-28 June 2013	Polymers at Interfaces 2013, Bristol	Dr Jeroen van Duijneveldt http://www.colloidsgroup.org.uk/images/stories/Fliers/PolymersatInterfaces2013Flyer.pdf
7-10 July 2013	34th Australasian Polymer Symposium, Darwin Convention Centre, Australia	http://www.34aps.org.au/2013/
08 -11 July 2013	11th Materials conference on Materials Chemistry, University of Warwick	Dr Andrew Dove and Prof. Richard Walton - www.rsc.org/MC11
18-22 August 2013	10th IUPAC International conference on advanced polymers via Macromolecular Engineering, Durham University	l.r.hutchings@durham.ac.uk www.dur.ac.uk/soft.matter/apme2013/
1-4 Sept 2013	30th Polymer Degradation Discussion Group (PDDG), ENSAM, Paris, France	www.pddg.org/conference2013/conf2013mai n.php
4-6 Sept 2013	RAPS 2013, University of Manchester	jonathan.behrendt@manchester.ac.uk www.raps.org.uk
9-11 Sept 2013	Physical Aspects of Polymer Science 26th Polymer Physics Biennial	n.clarke@sheffield.ac.uk www.iop.org/conferences
16-18 Sept 2013	Faraday Discussion 166 Self Assembly of Biopolymers, University of Bristol	Ian Hamley (Reading University) www.rsc.org/ConferencesAndEvents/RSCC onferences/FD166/index.asp
3-7 November 2013	POLYMAR 2013, Barcelona, Spain	http://polymar2013.com/

Macro Group Nominations

Macro Group Committee Nominations

Nominations are required for Ordinary Members of the committee to serve for a three-year period from November **2013**. The Group constitution requires that the persons elected as Ordinary Members must be Macro Group members and include at least one member from each of the parent societies (RSC or SCI). Nominations signed by the proposer and seconder (both of whom must be members of Macro Group) and also by the nominee and should be made using the form below to the Group Secretary, Rachel O'Reilly, no later than 15th September 2013. Nominations should be signed by the proposer and seconder (both of whom must be members of Macro Group) and also by the nominee to indicate his/her agreement to serve. A short biographical outline of the experience, knowledge and skills that the nominee would bring to the committee also is required and should be attached to the nomination.

Nomination for Macro Group UK Committee

To be returned to Dr Rachel O'Reilly, Macro Group Secretary, Department of Chemistry, University of Warwick, Coventry, CV4 7AL.

DEADLINE FOR RECIEPT: 15th SEPTEMBER 2013

We hereby nominate: _____ (print name)
for the post of Ordinary Member on Macro Group UK Committee

Proposer: _____ (print name) _____ (signature)

Secunder: _____ (print name) _____ (signature)

Nominee:

I _____ (print name)

confirm that I am a member of Macro Group through the RSC / SCI (delete as appropriate) and agree to serve on Macro Group Committee if elected.

_____ (signature)