***Curriculum Vitae***

***Peter Charles Griffiths***

*B.Sc., Ph.D., D.Sc., C.Chem., F.H.E.A., F.R.S.C.*

*Director*

*Greenwich Research, Enterprise and Employability,*

*University of Greenwich*

*2020*

***Personal Information***

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| Date and Place of Birth | 20th May 1967; Plymouth, Devon. |
| Nationality | British |
| Communication | 41 Goldcrest Drive,  St. Mary’s Island  Chatham Maritime  Mobile phone 07977-274797 |

***Professional Career***

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| 18th October 2016 – to date | **University of Greenwich**  (Director of GRE) |
| 1st Jan 2014 – 18th October 2016 | **University of Greenwich**  (Head of Department, PCES) |
| 1st March 2013 – 1st Jan 2014 | **University of Greenwich**  (Dean, School of Science) |
| July 2012 – to date | **University of Greenwich**  (Professor of Formulation Science) |
| November 1995 to July 2012 | **Cardiff University**  (Reader 2004- ; Senior Lecturer 2000-2004; Lecturer 1995-2000)  *Awarded D.Sc. (University of Bristol, 2006) and docent (Royal Institute of Technology, Stockholm, 2007); Fellow of the Royal Society of Chemistry (RSC) (CChem., F.R.S.C.) and Fellow of the Higher Education Academy (F.H.E.A.)* |
| April 1994 to November 1995 | **Royal Institute of Technology**  Stockholm (Guest Researcher) |
| September 1991 to April 1994 | **University of Bristol**  (Research Associate) |
| September 1988 to September 1991 | **University of Bristol**  Ph.D research “Diffusion in Bimodal Polymer Systems” |
| September 1985 to September 1988 | **University College of North Wales**  B.Sc (Hons) Chemistry 2(i) |

***Management Duties***

Currently a senior manager within a large London-based University, and previously as a key member of a Russell group University (Cardiff University), I play a pivotal role in delivering the University agenda;

* *Director, Greenwich Research, Enterprise and Employability;* facilitating the growth and development of Research and Enterprise activity across the university, linking with all the academic faculties in the university; providing strategic leadership across the university in achieving a complex set of outcomes for academics, students and employers; ensuring processes are in place to support significant income generation, as well as adding value to the University’s objectives in relation to research, enterprise and employability. Working alongside the Deputy Vice Chancellor (Research and Enterprise), develop and implement the research and enterprise strategy and policies of the university addressing related issues including research capacity development, commercialisation and incentivisation, business engagement, business incubation and student enterprise, and the university’s contribution to local economic development.
* Significant management responsibility around REF2021 submission, managing the annual assessment rounds, now playing a key role of identifying which staff are in scope for submission, and shaping the Units of Assessment;
* Recently managed the successful Ofsted inspection around Apprenticeships;
* Previous Member of *the Court* (Governor) of University of Greenwich, including membership of *Nominations, staffing and remuneration committee* as well as *Finance* *committee;*
* Member of former *Academic Council* now *Leadership Forum;* that help informs the strategic direction of the University, and maintains effective communication between various units within the University;
* *Co-lead of Materials Research Cluster;* invigorate, coordinate and steer materials research within the Department, securing and distributing internal funds;
* *First as Dean of School of Science,* then *Head of Department, Pharmaceutical, Chemical and Environmental Science (PCES);* responsibilities included but not limited to, academic responsibility for >10 degree programmes, ensuring recruitment targets are met, marketing presence, chairing of exam boards, staff appraisals, research agenda setting, staff recruitment, academic and financial oversight of one of six Departments within Faculty of Engineering and Science. PCES has an operating budget of around £20M. As Dean, I was responsible for close to 50 academic members of staff, and as Head of Department I line-managed 25 academic members of staff, and the Department enjoyed a similar number of PhD students and postdocs. I was responsible ultimately for their performance, the financial health of the Department, at least within the Finance-agreed budgets.
* Previously, *Faculty committee activity;* Experience of Faculty Management Committee, Faculty Research & Enterprise Committee, Faculty Academic Quality Standards Committee, Campus Operating Group, Extenuating Circumstances Committee, Faculty Recruitment and Admissions Committee, Faculty Advisory Board;
* *Transnational Education role at Cairo;* Quality Assured two programmes, including oversight of all aspects of course delivery, chair exam boards, and interaction with external examiners;
* *Institution-level External Examiner roles at Malta (2015-2018) and Kuwait (2015, 2018);*
* *Physical Sciences and Engineering Advisory Panel and Life Sciences and Soft Materials Advisory Panel ­*– (obtain and maintain an overview of the science enabled by facilities supported by STFC; Understand the science strategies of the Research Councils and consider the impact on the science that can be enabled by the facilities; develop and maintain a vision and long term strategy/roadmap for facilities by assessing the merit of current and future research; develop and maintain a technology roadmap for the facilities by understanding the technology needs for their scientific areas; consult and interact with the community to ensure its views are canvassed and there is an appropriate and effective route for communication with STFC on strategic programmatic issues; provide advice to Science Board on specific questions as requested; liaise with other Advisory Panels when appropriate.

***Research***

***Research leadership***

Initially appointed to Greenwich as a research professor, to nucleate and grow research capacity in the area of formulation science, I was swiftly asked to undertake a wider leadership role, firstly as Dean, then Head of Department (driven my University-wide re-organisation) and now as Director of Greenwich Research and Enterprise.

Within the research arena, examples of contributions, initiatives and processes I created include;

* Restructured the Greenwich Research and Enterprise directorate to evolve it into a more proactive and supportive structure for the University, to facilitate the desired growth as set out in the Research and Enterprise Strategy 2016-2021;
* Created a Research and Enterprise Training Institute within the University to address gaps in academic staffing skillsets in a research and enterprise context, to consolidate processes that manage the PGR community, and their supervisors;
* Helping to shape the research profile and external perception of the University;
* Taking a strategic role in the internal distribution of various revenue streams under HEIF, REF, RCIF, and HEFCE *etc* criteria;
* As “REF Champion” in 2014 for the former School of Science, it was my role to acquire, distil and distribute for assessment articles and evidence, collate feedback and ultimately select which UoAs Greenwich was returning to, thereafter to identify qualifying staff members for inclusion; the writing of Chemistry (UoA8) impact case studies, and cross-fertilisation of other University-wide UoA impact cases, overseeing the compilation of the numerous documents, and liaising with the centre to optimise the quality of the submission. The Chemistry submission was the first one formally submitted by Greenwich;
* Within the School of Science, I was instrumental in reconfiguring the research “clusters”, creating multidisciplinary, research-theme facing “groups” with a membership that better reflects the demographics of the staff base;
* Working with the Faculty Directors of Research and Enterprise, to improve the reporting “pipeline” that captures at any point in time, current funded work and pending grant applications, publications and activity in its widest sense, as a tool to both promote and support activity, ensure impact is derived wherever possible, to increase the number of staff engaged in research and to raise the quality of research outputs;
* Through selective segmenting staff research activity profiles, specific training has been sourced to improve the awareness and capability of staff within the broadest research and enterprise space;
* Created mechanisms by which ECRs can contribute to the research agenda, through mentoring by senior staff, reallocation of workloads to encourage & facilitate time spent in research, and preferential allocation of available budgets;
* As Head of Department, more precise target or goal setting for individual members of staff, and coupling these to the appraisal process, as a mechanism to clarify expectations around the research/teaching interface;
* Broadening the activities of Enterprise Development Managers away from established researchers towards less active staff and ECRs, to introduce horizon scanning of funding opportunities, and to facilitate the management of grant bidding/submission;
* Improved the transparency around the competitive mechanisms defining how internal funds are distributed, and coupling their award to better defined outputs and goals.

***Personal Research profile***

Understanding, and ultimately controlling, the interactions of one group of molecules in a complex mixture - a formulation - is fundamental to many of the challenges we face over the next few decades. Driven by a need across the board for greener, more effective commodity products (*e.g.* shampoos) to highly specialised next generation materials to tackle the issues associated with a greater demand on natural resources, the increased need for energy coupled against the backdrop of an ageing population (*e.g.* increased prevalence of degenerative diseases) requires us to be able to more efficiently assemble precisely controlled structures with highly tailored functions and properties. Quantifying, and understanding, the factors that determine these characteristic interactions is the subject of my research, which utilizes, adapts and develops scattering and spectroscopic methodology to achieve its goals.

Specifically in the area of physical chemistry/formulation, my scientific contribution has centred on a number of areas, from both fundamental;

* quantifying dynamic parameters *e.g.* rate of diffusion as a probe of structure and interaction in complex mixtures as a vehicle to probe interactions in formulated mixtures,
* designing and characterising self-assembling systems, such as organo- and hydrogels, microemulsions and liposomes
* examining novel functional materials, in particular metallosurfactants,
* adsorption of polymers at heterogeneous (solid/liquid and air/liquid) surfaces,
* developing spin-resonance and scattering methodology and data analysis,
* demonstrating how molecular level interactions give rise to new concepts regarding the relationship between, and evolution of, the gene and organism structure,

and applied perspectives;

* understanding structure-activity relationships in emerging polymer therapeutics,
* defining solution properties of polymer-protein and polymer-drug conjugates
* investigating protein-protein interactions, in the context of diseases of the eye,
* probing polymer therapeutics/biointerface interactions,
* optimising tablet formulations,
* fluorinated drug delivery systems.

Current projects and future directions build on these varied themes, and are focused on quantifying interactions in soft matter systems, and developing formulations for a range of commodity formulations *e.g*. paints, oral and hair care products, (funded projects with Infineum, Unilever, GSK and MSD).

In summary, I have published over 140 articles and book chapters (Appendix 1) that have attracted over 4150 citations, with an H-index of 41, and supervised 35 PhD/PDRAs (Appendix 2) largely funded from grant income (Appendix 3), and numerous MSc/BSc research projects. Aspects of these contributions to the scientific literature have been presented as invited and plenary lectures at key international conferences (Appendix 4), profiled in popular science fora *e.g.* Chemistry World[[1]](#footnote-1), Radio Wales Science Café (21st Nov. 2008), various trade magazines *e.g.* Pharmaceutical Technology Europe*[[2]](#footnote-2)* , as well as being highlighted in the 2012 annual reports of both ISIS[[3]](#footnote-3) and the ILL[[4]](#footnote-4).

***Professional Activities***

Since taking up a full-time academic post, I have immersed myself in academic life, in its widest context;

* Chair of the SCI/RSC Colloid and Surface Chemistry Technical Interest Group; the purpose of this Technical Interest Group is to represent the U.K. community in the area of colloid science/nanotechnology, primarily through the organisation of conferences; provision of travel bursaries and expert opinion to companies and learned bodies *(2007-2011)*,
* Awards officer of the SCI/RSC Colloid and Surface Chemistry Technical Interest Group; championed the introduction of the McBain medal, a new award to recognise someone in the early stages of their career, and latterly the Graham award, to recognise someone in the prime of their career *(2004-2007)*,
* Chair of the Rideal Trust Committee, again a joint venture between the SCI and RSC; key role is to coordinate the Rideal Lecture, the Rideal Travel Bursary scheme and support for the triannual Rideal Conference *(2009-current)*,
* Chair of the South East Wales Local Section of the RSC; coordination of activities promoting and furthering Chemistry related activities in South East Wales, especially in relation to the education sector, *via* seminar series, schools outreach events, interaction with organizations that popularise science e.g. Techniquest, providing a focal point for retired members *(2005 – 2012)*,
* Member of SCI Early Career Support Committee *(2009 – 2014)*; responsible for the selection of individuals to receive the recently re-launched SCI Major Awards, long-standing service awards, and other SCI related medals and prizes; previously conducted a review of the number and nature of the various awards offered by SCI whilst Awards Committee member *(2005 – 2009)*,
* Consultant for Dow Corning (2008-10), Kodak (2005), GSK (2015), Unilever (2012-),
* Member of the ISIS Facility Access Panel (2004-2009, 2019*-current*) that peer-reviews neutron proposals in the area of large scale structures, as well as *ad hoc* reviewer for proposals submitted to NIST (USA),
* Member of the Instrument Advisory panel associated with the Target station II developments (2007-2009),
* Expert witness Novartis *vs* Dexel (2008/9) [High Court London],
* External examiner for M.Res. Polymer Science and Technology (Glyndwr University) (2008 – 2012),
* Cited textbook reviewer (Atkins’ Physical Chemistry, 8th edition; Atkins & de Paola’s Elements of Physical Chemistry, 4th edition and Chemistry3 by Burrows, Holman, Parsons, Pilling and Price, 1st edition).
* Member of International Scientific Committees for numerous conferences such as
  + Colloids2010 (London, 2010); Colloids2017 (Manchester, 2017) & Colloids2020 (Liverpool, 2020);
  + EUChemS (Turkey, 2014; Seville 2016);
  + 9th International Symposium Polymer Therapeutics, Valencia May 2012 (and 8th, 2010; 7th, 2008);
  + Secrets of Formulation (London 2011);
  + Macro2010 IUPAC World Polymer Congress, Glasgow, July 2010;
  + 1st, 2nd and 3rd ESF Summer Schools in Nanomedicine (Cardiff, 2007, Lisbon 2009 and Croatia 2013 respectively);
  + Resonance Techniques in Colloid Science, Manchester, 2003;
  + Colloids in the Body”, SCI London, 2007;
  + IACIS2000, Bristol, 2000;
  + Diffusion in Heterogeneous Media, SCI London, 1998;
  + Polymers at Interfaces, Bristol 1993
* Frequent referee for EPSRC & BBSRC, and numerous scientific journals (Macromolecules, J. Phys. Chem., Langmuir, Biomacromolecules, Polymer, J. Coll. Int. Sci., Soft Matter, Colloids and Surfaces, *etc*.),
* Internal or external examiner for M.Sc. and Ph.D. students in a number of UK and overseas Universities
  + Barcelona (2010);
  + Bath (2015);
  + Bristol (1999, 2001, 2004, 2005, 2006, 2010, 2011, 2012, 2013, 2018, 2019);
  + Cardiff (1998 onwards);
  + Dublin (2016);
  + East Anglia (2003);
  + Greenwich (2002, 2007 and each year since joining);
  + Imperial College (2011, 2018);
  + Kent (2013);
  + Kings College London (2009, 2011,2020);
  + Kuwait (2016, 2018);
  + Leeds (2009,2011, 2017, 2019);
  + Lund (2005, 2014);
  + Malta (2016);
  + Melbourne (1999 and 2017);
  + NEWI (2008, 2016);
  + Newcastle (2018);
  + Stockholm (2006, 2017, 2018);
  + Sheffield (2014), and,
  + University of New South Wales (2018).
* Public Communication of Science activities include
  + Radio Wales Science Café Interview on Nanotechnology & neutron scattering, (21st Nov. 2008);
  + Journey through ISIS – one of my experiments at ISIS was profiled in this web and print document from conception to execution through to publication, to demonstrate how research conducted at ISIS has an impact in the UK[[5]](#footnote-5);
  + EPSRC-supported presence at The National Eisteddfod of Wales (Blaenau Gwent, July 2010);
  + Overseeing numerous Schools related activities (development of e-learning materials, organising workshops for A level students, CPD training for teachers, bespoke interaction with local schools *etc*) under an Outreach and Engagement supervisory role, including line management of the RSC-funded Regional Coordinator for Wales, and related staff, whilst at Cardiff University.

***Appendix 1***

1. **pH-Dependent Chiral Recognition of D- and L-Arginine Derived Polyamidoamino acids by Self-assembled Sodium Deoxycholate** Federica Lazzari, Bruce D Alexander, Robert M Dalgliesh, Jenny Alongi, Elisabetta Ranucci, Paolo Ferruti and Peter C Griffiths *Polymers***2020,** 12(4), 900
2. **Auto-fluorescent PAMAM-based dendritic molecules: potential application in pharmaceutical science** Alaa El-Betany,Elbadawy A. Kamoun,Craig James,Abdulhakim Jangher,Ghaith Al-Jayyouss,Peter Griffiths,Neil McKeownand Mark Gumbleton *I.J.P.* **2020**, 579, 119187
3. **Surfactant mediated adsorption of cationic polymers to anionic surfaces Wasiu Abdullahi, Peter Griffiths and Martin Crossman *Polymers* 2020*,* 12(2), 287**
4. **Electrophoretic NMR characterisation of charged sidechain cationic polyelectrolytes and their interaction with anionic surfactants** Leesa Patel, Omar Mansour, Martin Crossman and Peter Griffiths *Langmuir* **2019**, 35(28), 9233-9238
5. **Surfactant modulated interactions of hydrophobically modified ethoxylated urethane (HEUR) polymers with penetrable surfaces** Mervat S. Ibrahim, Stephen King, Martin Murray, Agnieszka Szczygiel, Bruce D. Alexander, and Peter C. Griffiths Journal of Colloid and Interface Science **2019**, 552, 9-16
6. **Segregation versus interdigitation in highly dynamic polymer/surfactant layers** Omar T. Mansour,Jamie Hurcom, Beatrice Cattoz, Manon Beaube, Richard K. Heenan, Ralf Schweins, and Peter C. Griffiths  *Polymers* **2019**, 11, 109
7. **Surfactant modulated interaction of hydrophobically modified ethoxylated urethane (HEUR) polymers with impenetrable surfaces** Mervat Shafik Ibrahima, Sarah Rogers, Najet Mahmoudi, Martin Murray, Agnieszka Szczygiel, Beth Green, Bruce D. Alexander and Peter C. Griffiths *Journal of Colloid and Interface Science* **2019**, 539, 126-134
8. **The effect of thiamine-coating nanoparticles on their biodistribution and fate following oral administration** Laura Inchaurraga, Ana L Martínez-López, Beatrice Cattoz, Peter Griffiths, Matt Wilcox, Jeff Pearson, Gemma Quincoces, Ivan Peñuelas, Nekane Martin-Arbella, Juan M. Irache *European Journal of Pharmacy***2019**, 128, 81-90
9. **Structural evolution in metallomicroemulsions – the effect of increasing alcohol hydrophobicity** A Paul, PC Griffiths, IA Fallis, A Churchill, SM King *Dalton Transactions* **2018**, 47, 14211-14217.
10. **Studying the interaction of hydrophobically modified ethoxylated urethane (HEUR) polymers with sodium dodecylsulphate (SDS) in concentrated polymer solution** Mervat S. Ibrahima, Jordane Valencony, Stephen King, Martin Murray, Agnieszka Szczygiel, Bruce D. Alexander, and Peter C. Griffiths *Journal of Colloid and Interface Science* **2018,** 529, 588-598.
11. **Graphene Nanosystems as Supports in siRNA Delivery** Simona Campora, Nicolò Mauro, Peter Griffiths, Gaetano Giammona, and Giulio Ghersi *Chemical Engineering Transactions* (CET) **2018,** 64
12. **Probing the surfaces of core-shell and hollow nanoparticles by solvent relaxation NMR** M.R. Hossain, D. Wray, A. Paul and P.C. Griffiths*Magnetic Resonance in Chemistry* **2018***,* 56, 251–256
13. **Assembly of small molecule surfactants at highly dynamic air-water interfaces** Mansour, Omar; Cattoz, Beatrice; Montagnon, Morganne; Heenan, Richard ; King, Stephen; Davies, Alun; Schweins, Ralf; Appavou, Marie-Sousai; Griffiths, Peter *Soft Matter****, 2017,***13, 8807 - 8815
14. **Do model polymer therapeutics sufficiently diffuse through articular cartilage to be a viable therapeutic route?** Alison Powell, Bruce Caterson, Clare Hughes, Omar Mansour and PC Griffiths*Journal of Drug Targeting***2017,**25 (9), 919-926
15. **Pulmonary uptake, transport and macromolecular interactions of anionic PAMAM dendrimers within lung tissue** Christopher J. Morris, Ghaith Aljayyoussi, Omar Mansour, Peter Griffiths, and Mark Gumbleton *Pharmaceutical Research* ***2017***, 34(12), 2517-2531
16. **The antimicrobial effects of the alginate oligomer OligoG CF-5/20 are independent of direct bacterial cell membrane disruption** Manon F. Pritchard, Lydia C. Powell, Saira Khan, Peter C. Griffiths, Omar T. Mansour, Ralf Schweins, Konrad Beck, Niklaas J. Buurma, Christopher E. Dempsey, Chris J. Wright, Philip D. Rye, Katja E. Hill, David W. Thomas & Elaine L. Ferguson *Scientific Reports* ***2017*,** 7, 44731
17. **Linking Micellar Structures to Hydrogelation for Salt-triggered Dipeptide Gelators** Dave Adams, Zamith Cardoso; Mears, Laura; Ralf Schweins; Beatrice Cattoz; Peter Griffiths*Soft Matter***2016**, 12, 3612 - 3621
18. **In vitro evaluation of the interaction of dextrin colistin conjugates with bacterial lipopolysaccharide** Jessica L. Roberts, Beatrice Cattoz, Ralf Schweins, Konrad Beck, David W. Thomas, Peter C. Griffiths, Elaine L. Ferguson *Journal of Medicinal Chemistry* **2016***,* 59(2),647–654
19. **Quantifying the micellar structure formed from hydrocarbon-fluorocarbon surfactants** Zaineb Et-Tarhouni, Emma Carter, Damien M. Murphy, Peter C. Griffiths, Omar Mansour, Stephen M. King and Alison Paul *Colloids and Surfaces* **2016,** 492 (5), *255-262*
20. **RGD Mimic Polyamidoamine-Montmorillonite Composites with Tunable Stiffness as Scaffolds for Bone Tissue Engineering Applications** Elisabetta Ranucci, Nicolò Mauro, Federica Chiellini, Cristina Bartoli, Matteo Gazzarri, Michele Laus, Diego Antonioli, Peter Griffiths, Beatrice Cattozand Paolo Ferruti *Journal of Tissue Engineering and Regenerative Medicine* **2017,** *11(7),* 2164-2175
21. **Disarmed Anthrax Toxin Delivers Antisense Oligonucleotides and siRNA with High Efficiency and Low Toxicity** Simon Richardson, Paul D Dyer, Thomas R Shepherd, Alexander S Gollings, Susan A Shorter, Monique A Pattrick, Chun-Kit Tang, Beatrice N Cattoz, Les Baillie, Peter C Griffiths *Journal of Controlled Release* **2015**, 220, 316-328
22. **Impact of End-Tethered Polyhedral Nanoparticles on the Mobility of Poly(dimethylsiloxane)** Terence Cosgrove, Steven Swier, Randall Schmidt, Stewart Prescott, Sairoong Muangpil, Peter Griffiths and Youssef Espidel *Langmuir,* **2015***, 31 (30),* 8469–8477
23. **Probing Competitive Interactions in Quaternary Formulations** Omar T. Mansour, Beatrice Cattoz, Richard K. Heenan, Stephen M. King and Peter C. Griffiths *Journal of Colloid and Interface Science,* **2015***,* 454, 35-43
24. **Probing the interaction of nanoparticles with mucin for drug delivery applications using dynamic light scattering** Griffiths, Peter Charles; Cattoz, Beatrice; Ibrahim, Mervat Shafik, and Anuonye, Josephine Chibuzor *European Journal of Pharmaceutics and Biopharmaceutics* **2015**, 97, 218-222

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## Nanoparticle diffusion within intestinal mucus: Three-dimensional response analysis dissecting the impact of particle surface charge, size and heterogeneity across polyelectrolyte, pegylated and viral particles Muthanna Abdulkarim, Nuria Agulló, Beatrice Cattoz, Peter Griffiths, Andreas Bernkop-Schnürch, Salvador Gómez Borros, Mark Gumbleton *European Journal of Pharmaceutics and Biopharmaceutics* 2015, 96, 464–476

1. **Nanoparticles decorated with proteolytic enzymes, a promising strategy to overcome the mucus barrier** Pereira de Sousa I., Cattoz B., Wilcox MD., Griffiths PC., Dagliesh R., Rogers S., Bernkop-Schnürch A. (University of Innsbruck) *European Journal of Pharmaceutics and Biopharmaceutics* **2015***,* 97, 257–264
2. **The Effect of Solvent Choice on the Gelation and Final Hydrogel Properties of Fmoc-Diphenylalanine** Jaclyn Raeburn, Cristina Mendoza-Cuenca, Beatrice Cattoz, Marc Little, Ann E. Terry, Andre Zamith Cardoso,Peter C. Griffiths and Dave J. Adams *Soft Matter,* **2015***, 11, 927 - 935*
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5. **Construction and Physiochemical Characterization of a Multi-Composite Oral Vaccine Delivery Vehicle** Marie W Pettit, Paul D. G. Dyer, John C. Mitchell, Peter C. Griffiths, Bruce Alexander, Richard K. Heenan, Ralf Schweins and Simon C.W. Richardson *Int. J. Pharm.* **2014***, 468, 264–271*
6. **The interfacial structure of polymeric surfactant stabilised air-in-water foams** J Hurcom, RK Heenan, SM King, N Woodhead, A Davies and PC Griffiths *Soft Matter* **2014,** 10 (17), 3003 - 3008
7. Nanocarriers from dicationic *bis*-imidazolium amphiphiles and their interaction with anionic drugs Lucía Casal-Dujat, Peter C. Griffiths, Carlos Rodriguez-Abreu, Conxita Solans, and Lluïsa Pérez-García *J. Mater. Chem. B,* 2013, 1(38), 4963 – 4971
8. The influence of kinetics on the properties of dipeptide hydrogels Andre Zamith Cardoso, Estefania Alvarez Alvarez, Beatrice N. Cattoz, Peter C. Griffiths, Stephen M. King, William J. Frithe and Dave J. Adams *Faraday Discussions* 2013, 166, 101
9. **Self-assembled PAA-based nanoparticles as potential gene delivery systems** P. C. Griffiths, N. Mauro, E. Ranucci, D. M. Murphy, E. Carter and P. Ferruti *Macromolecular Bioscience* **2013** 13(5), 641-9
10. **Chemically Programmed Self-Sorting of Gelator Networks** Kyle L. Morris, Lin Chen, Jaclyn Raeburn, Owen R. Sellick, Joseph Patterson, Alison Paul, Peter C. Griffiths, Stephen M. King, Rachel O’Reilly, Louise C. Serpella and Dave J. Adams *Nature Communications* **2013,** 4, 1480
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12. **Polymeric micelle disruption by cosolvents and anionic surfactants** A Jangher, PC Griffiths, A Paul, R. Schweins, RK Heenan and SM King *Colloids and Surfaces A* **2011**, 391, 88-94
13. Tuneable Mechanical Properties in Low Molecular Weight Gels Lin Chen,Jaclyn Raeburn,Sam Sutton,David G. Spiller, James Williams, James S. Sharp, Peter C. Griffiths, Richard K. Heenan, Stephen M. King, Alison Paul, Steve Furzeland, Derek Atkinsand Dave J. Adams *Soft Matter* 2011, 7, 9721-9727
14. Poly(amidoamine) polymers: soluble linear amphiphilic drug delivery systems for genes, proteins and oligonucleotide delivery. Marie W. Pettit, Peter Griffiths, Paolo Ferruti & Simon C. W. Richardson *Therapeutic Delivery* 2011, 2(7), 907–917
15. **Responsive hybrid block co-polymer conjugates of proteins – controlled architecture to modulate substrate specificity and solution behaviour** Peter C Griffiths, Abdulhakim Jangher, Renuka Nilmini, Johannes Pall Magnusson, Cameron Alexander, Alison Paul and Stephen King *Polymer Chemistry* **2011**, 2, 1567-1578
16. **Conformational consequences of cooperative binding of a coiled-coil peptide motif to poly(N-(2-hydroxypropyl) methacrylamide) HPMA copolymers.** Peter C. Griffiths, Alison Paul, Bojana Apostolovic, Harm-Anton Klok, Edoardo de Luca, Stephen M. Kingand Richard K. Heenan *J. Controlled Rel.* **2011,** 153, 173-179
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20. **Gelation or molecular recognition; is the bis-(α,β-dihydroxy ester)s motif an omnigelator ?**  Peter C. Griffiths, David W. Knight, Ian R. Morgan, Amy Ford, James Brown, Ben Davies, Richard K. Heenan, Stephen M. King, Robert Dalgliesh, John Tomkinson, Stuart Prescott, Ralf Schweins and Alison Paul *Beilstein Journal of Organic Chemistry* **2010**, 6, 1079–1088.
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**Contributions to Books and Review Articles**

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2. **Quantifying diffusion in mucosal systems by pulsed-gradient spin-echo NMR** P Occhipinti and PC Griffiths Advanced Drug Delivery Reviews **2008,** 60, 1570-1582
3. **Small-Angle Neutron Scattering Studies of Adsorbed Polymer Layers** Encyclopedia of Surface and Colloid Science, Peter C. Griffiths and S. M. King. Second Edition; Taylor & Francis: New York, **2006**; 7, pp. 5630 -5644.
4. **Small-Angle Neutron Scattering Studies of Polymer Adsorption** Encyclopedia of Surface and Colloid Science PC Griffiths and SM King Marcel Dekker, Inc., New York **2002** ISBN 0-8247-0633-1
5. **Architecture in the Microcosm**: Biocolloids, Self-Assembly and Pattern Formation. Alan R. Hemsley& Peter C. Griffiths Visions of the future; Chemistry and Life Sciences Ed. J. Michael T. Thompson Cambridge University Press ISBN 0-521-80539-2, **2001**
6. **Neutron Scattering and Nuclear Magnetic Resonance Investigations of Cyclic Polymers** PC Griffiths Cyclic Polymers Ed 2 (ed. AJ Semlyen) , Kluwer Academic Publishers (**2000**) ISBN 0-412-83090-6
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9. Small-Angle Neutron Methods in Polymer Adsorption Studies Terence Cosgrove, Stephen M. King and Peter C. Griffiths Colloid-Polymer Interactions: From Fundamentals to Practise Ed. PL Dubin and RS Farinato (Wiley&Sons) (1999) ISBN 0-471-244316-7
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11. **The Interaction between Sodium Dodecyl Sulphate and Gelatin in Aqueous Solutions** PC Griffiths and A.M. Howe Recent Res. Devel. In Physical Chemistry., 2, (**1998**)

***Appendix 2***

***Research Students and Post-docs***

*PhD students*

1995 Associative Polymers – their self-association and interactions with surfactants (Karin Person, Royal Institute of Technology, Stockholm)

2000 Molecular interactions in phenolic foams (Christian Tipples)

2000 PGSE-NMR and SANS studies of gelatin-surfactant systems (John Roe)

2001 Hydrophobically modified gelatin and its interaction with surfactants (Pattana Teerapornachaisit)

2002 The diffusion of dyes in swollen polymers (Jason Davies)

2002 Exploring new methods for assessment of current transformer materials (Claire Wagstaffe)

2002 Fluorescence studies of polymer surfactant complexes (Angie Winnington)

2003 Gelatin - mixed micelle interactions (Angela Cheung)

2004 Rheology of carbon black dispersions (Claire Barrie)

2006 Phase behaviour of polymers in fluorinated media (Rob James)

2005 The interaction of mixed surfactants with “tailored polymers” (Champa Wellappili)

2005 Charged Colloids Observed by Electrophoretic and Diffusion NMR (Erik Pettersson, Royal Institute of Technology, Stockholm)

2005 Enhancement of binding efficiency of lac dye on cotton fibres (Sorapong Janhom, Chiang Mai University CMU, Thailand)

2006 Understanding the physicochemical properties of polymer therapeutics (Zeena Khayat)

2008 The effects of cosolvents on polymer-surfactant interactions (Natasha Hirst)

2008 (sub.) Adsorbed polyelectrolytes in concentrated particulate dispersions (Sarah Waters; unsuccessful)

2008 Phase behaviour of polymers in fluorinated media (Marie Côte)

2010 Different Architectural Polymers used in Drug/Gene Delivery (Nilmini Renuka)

2010 The use of water-soluble polymers to promote targeting and delivery of therapeutic agents (Paola Occhipinti)

2010 Soft Nanomaterials from Bis-Imidazolium Amphiphiles (Lucia Casal Dujat des Allimes, Pharmacy Department, University of Barcelona)

2011 Competitive interactions in responsive polymer/surfactant systems (Abdul Jangher)

2012 Nanoparticles from oppositely charged polymer (Nicolo Mauro, Department of Polymer Chemistry, University of Milan)

2014 Probing the behaviour of poly(ethylene oxide)-poly(propylene oxide)-poly(ethylene oxide) surfactants in the formation of hydrophilic polyurethane foam (Jamie Hurcom)

2016 Studies on micellization behavior of water soluble polymers in ionic surfactants (Hazrat Ali, Department of Chemistry, Gomal University, Dera Ismail Khan, Pakistan)

2016 Templating of Hierarchical Particles with Mircoemulsions (Zaineb El-Tahaouni)

2016 Probing Interactions in Formulated System (Omar Mansour)

2017 Effect of Thermodynamic Quality of Solvent over the Polymer-Surfactant Interactions (Ayesha Niazi, Department of Chemistry, Gomal University, Dera Ismail Khan, Pakistan)

2018 Insights into the behaviour of hydrophobically modified ethoxylated urethane polymers in soft and hard colloid formulations (Mervat Ibrahim)

2018 Electrophoretic Nuclear Magnetic Resonance Characterisation of Self-Assembling Systems (Leesa Patel)

***Post-doctoral research workers***

1996-1998 Do mixed surfactant micelles segregate in the presence of certain polymers ? (Richard Abbott)

1998-2001 Rheo-NMR studies of concentrated carbon black dispersions (Richard Abbott)

2002 Adsorption studies of drug suspension in HFA propellants (Alison Paul)

2003 Electrophoretic NMR applied to polymer, surfactant and particle containing systems (Alison Paul)

2002-2004 Control of polymer morphology by metal ion complexation (Graham Watson)

2003-2005 Non-corrosive surface active catalysts in chemical weapons decontamination (Matt Hargreaves)

2005 - 2010 Bioresponsive Polymers (Alison Paul, Simon Richardson, Lorella Izzo, Chris Morris, Stuart Prescott (Bristol), *Laila Kudsiova (King’s), Jenny Lam (King’s)*, Patricia Periera, Elaine Ferguson, Edoard de Luca)

2013-2014 Enterprise Funded position (Youssef Espidel)

2013-2016 Mucus penetrating nanoparticles (Beatrice Cattoz)

2017-2019 Lubricants (Omar Mansour)

2019- Lubricants (Christopher Hill)

***Appendix 3***

***Research Grant Income and dates***

|  |  |  |  |
| --- | --- | --- | --- |
| **Awardee** *(dates)* | **Funding Agency** | **Value** | **Grant Title** |
| University of Greenwich | | | |
| Prof PC Griffiths (01062014 – ongoing) | STFC | £250,000 (*nominal*) | Access to peer-reviewed central services |
| Prof PC Griffiths (01062014 – ongoing) | Unilever | £105,000 | Towards an understanding of complex formulations |
| Prof PC Griffiths (01102012-ongoing) | Infineum | Several, total  £385,000 | NMR diffusion applied to lubricant and fuel additives |
| Prof PC Griffiths (01102013 – ongoing) | Merck, Sharpe & Dohme | £76,500 | Conformation and interactions of controlled release polymers in solution and barrier films |
| Prof PC Griffiths (01032012-28022016) | EU FP7 | £357,800 | Mucus Permeating Nanoparticulate Drug Delivery Systems |
| Prof PC Griffiths (0102012-30032013) | Chiba University | £10,000 | NMR analyses of ionic liquids |
| Enterprise | GSK, Dow, Revolymer | £18,000 |  |
| Cardiff University | | | |
| Dr PC Griffiths  *(010896-311200)* | Nuffield Foundation | £3,000 | Cyclic Polymers |
| Dr PC Griffiths  *(011096-300998)* | Leverhulme Trust | £48,400 | Do Mixed Surfactant Micelles Segregate in the Presence of Certain Polymers ? |
| Dr PC Griffiths  *(011096-011099)* | Engineering and Physical Sciences Research Council (EPSRC) | £219,492 | Molecular interactions in phenolic foams |
| Dr PC Griffiths (with University of Wales Aberystwyth)  *(011298-301101)* | EPSRC | £182,708 | Rheo-NMR studies and computer modelling of polymers in concentrated carbon black dispersions |
| Dr PC Griffiths, Dr IA Fallis  *(010199-010102)* | Cray Valley Ltd | £5,550 | Novel finishing resins |
| Dr PC Griffiths  *(011096-011099)* | Kodak Ltd | £10,620 | PGSE-NMR and SANS studies of gelatin-surfactant systems |
| Dr PC Griffiths  *(010198-010901)* | Benchmark Technologies Ltd | £17,800 | Colloid chemistry of hand protecting lotions |
| Dr PC Griffiths  *(010198-010901)* | ICI Image Data | £11,700 | The diffusion of dyes in swollen polymers |
| Dr PC Griffiths, Dr IA Fallis, Dr DM Murphy  *(010199-211200)* | National Grid Company Plc | £46,310 | Exploring new methods for assessment of current transformer component material |
| Dr PC Griffiths  *(011099-011002)* | Kodak Ltd | £13,500 | Gelatin - mixed micelle interactions |
| Dr PC Griffiths  *(011000-300902)* | Columbian Chemical Company | £47,000 | Rheology of carbon black dispersions |
| Dr PC Griffiths  *(141200-141201)* | Astra Zeneca Ltd | £57,256 | Adsorption studies of drug suspension in HFA propellant |
| Dr PC Griffiths  *(120301-120401)* | National Grid Company plc | £200 | Chromate concentration transformer cooling water |
| Dr PC Griffiths, Dr IA Fallis  *(010202-311004)* | EPSRC | £122,246 | ROPA: Control of polymer morphology by metal ion complexation |
| Dr PC Griffiths  *(080102-090403)* | Astra Zeneca Ltd | £74,700 | Adsorption studies of drug suspension in HFA propellant |
| Dr PC Griffiths  *(011002-011005)* | Kodak Ltd | £18,000 | Relating to interactions of colloidal particles with polymers and surfactants |
| Dr PC Griffiths  *(010803-310704)* | Leverhulme Trust | £46,919 | Electrophoretic NMR Studies of Polymer, Surfactant and Biological Systems |
| Dr PC Griffiths, Dr IA Fallis  *(010403-011005)* | Defence Science and Technology Laboratory | £154,883 | Novel Decontamination Strategies for Chemical Weapons |
| Dr PC Griffiths  *(011003-300907)* | Astra Zeneca Ltd | £24,400 | Phase behaviour of polymers in fluorinated liquids |
| Dr PC Griffiths  *(010403-010405)* | Chiang Mai University | £9,900 | Heavy metal – polymer interactions |
| Dr PC Griffiths, Professor T Cosgrove, Professor MJ Lawrence, Dr S Roser, Dr R Thomas, Professor N McKeown, Professor R Duncan, Professor B Caterson, Professor M Boulton, Dr D Schmaljohann  *(060605-050610)* | EPSRC | £418,422 | Bioresponsive polymer therapeutics; synthesis and characterisation of novel nanomedicines |
| Dr PC Griffiths  *(010507-040607)* | Royal Society | £3,330 | Combined spin-resonance and fluorescence studies of self-assembled structures |
| Dr PC Griffiths, Professor Ruth Duncan  *(011006-310909)* | Cardiff University (Richard Whipp Scholarship Scheme) | £25,500 | Mucin – a barrier to drug delivery ? |
| Dr EL Ferguson, Prof D Thomas, Dr R Moseley, Dr PC Griffiths (010909-310810) | DPFS Sartre | £27,000 | Bioresponsive polymer-peptide conjugates as novel antibacterial agents |
| Dr AL Paul and Dr PC Griffiths (01102007-01062009) | Novartis | £18,000 | Solubility of Polymers in Fluorinated Media |
| Dr. A Jones, Dr. R Steadman, Dr PC Griffiths (14042010-13102011) | EPSRC | £55,736 | Tissue Engineering for Human Healing |
| Dr PC Griffiths (01092011-31122011) | Croma Pharma | £3,500 | NMR analysis of degree of cross-linking of HA in Croma Pharma products and its evolution with time |
| Dr PC Griffiths, Prof P Knowles (01012011-31122012) | Royal Society of Chemistry | £108,333 | Regional Coordinator for Wales |
| Dr PC Griffiths, Dr D Mason (01052011-31122011) | Royal Society of Chemistry | £5,555 | Spectroscopy in a Suitcase |
| Dr PC Griffiths, Prof P Edwards (01112011-30042012) | Royal Society of Chemistry (SIAS 2) | £21,000 | Revealing Chemical Secrets with Spectroscopy – a précis |
| Prof A Lee (lead), Dr K Wilson, Dr PC Griffiths (01012011 – 31122013). | Knowledge Economy Skills Scholarships | £63,563 | Nanoengineered polymer architectures for antimicrobial medical applications (A) Novel additives |
| Dr PC Griffiths (lead), Dr K Wilson, Prof A Lee (01012011 – 31122013). | Knowledge Economy Skills Scholarships | £63,563 | Nanoengineered polymer architectures for antimicrobial medical applications (B) Novel formulations |
| Dr PC Griffiths (26092011-25012012) | Domino UK Ltd | £600 | Probing interactions by NMR |

Plus the following grant income equivalent associated with the award of neutron beam-time.

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| Dr PC Griffiths  *(over the RAE period to 2008)* | Research Councils - Facility In Kind Contribution | £530,863 | Nominal contribution associated with ISIS and ILL beam-time allocations |
| Dr PC Griffiths  *(2008-2011)* | Research Councils - Facility In Kind Contribution | £546,270 | Nominal contribution associated with ISIS and ILL beam-time allocations |
| Dr PC Griffiths  (010396-310308) | Council for the Central Laboratory of the Research Councils (CCLRC), now STFC | £39,125 | Consumables associated with neutron beam-time |

Plus significant contribution towards School-wide infrastructure awards;

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| Prof PG Edwards, *et al*  *(011099-300902)* | EPSRC | £172,972 | Multinuclear and variable temperature NMR |
| Prof T Wirth, *et al*  *(010104-311205)* | EPSRC | £400,137 | Purchase of a 500 MHz Spectrometer |

***Research Seminars & Presentations (2000- )***

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|  | **The structure of particle-bound polymer/surfactant complexes; fluorescence and spin-resonance studies**  *Frontiers of Polymer Colloids* 2000 [Invited Speaker] |
|  | **Polymer-surfactant interactions - the role of surfactant micelle surface character**  *EuroConference on Interfaces and Thin Films of Polymers and Colloidal Systems, Acquafredda, Italy 8-13th September 2001* [Invited Speaker] |
|  | **Do surfactants lose their “heads” in the presence of polymers**  *Department of Chemical Engineering, Imperial College (2001)* [Invited Speaker] |
|  | **Competitive Interactions in Polymer Surfactant Mixtures**  *Department of Physics and Astronomy, Cardiff (2001)*  [Invited Speaker] |
|  | **EPR and SANS studies of polymer-surfactant complexes**  *Department of Surface Chemistry, Kungl. Tekniska Högskolan, Stockholm (2001)*[Invited Speaker] |
|  | **Correlating “macro” and “micro”**  *School of Chemistry, University of Bath (2002)* [Invited Speaker] |
|  | **Competitive Interactions in Polymer Surfactant Mixtures**  *Centre for Water Soluble Polymers, North East Wales Institute (NEWI) (2002)* |
|  | **Electron paramagnetic resonance and small-angle neutron scattering studies of mixed sodium dodecylsulfate and tetradecyl malono-bis-N-methylglucamide surfactant micelles**  *Surfactants in Solution, Gainsville, Florida, (2002)* |
|  | **Polymers, Particle and Surfactants**  *Department of Science, Chiang Mai University, Chiang Mai, Thailand (2003)* |
|  | **Pollen-like Particles**  *Drug Delivery to the Lungs, (11-12th* December 2003), Church House Conference Centre, Westminster, London [Plenary Lecture] |
|  | **Co-solvent effects on polymer-surfactant systems**  *Polymer Surfactant Systems* NEWI (2003) [Invited Speaker] |
|  | **Mixed surfactant and polymer/surfactant mixtures; using EPR (and NMR) to obtain localised structural and dynamics information**  *Resonance Techniques in Colloid Science, (9-11th April 2003) University of*  *Manchester*  [Invited Speaker] |
|  | **Soft and Sticky Colloids; Raspberries, Muffins and Cauliflowers**  *UK Polymer Colloid Forum (11-12th September UMIST, 2003)*  [Invited Speaker] |
|  | **Using SANS to investigate the solution properties of polyamidoamines**  **and PEI**  *6th International Symposium on “Polymer Therapeutics” (Cardiff, 2004)* [Invited Speaker] |
|  | **Small-angle neutron scattering, electron paramagnetic resonance, electrophoretic NMR and time-resolved fluorescence quenching studies of mixed surfactant micelles**  *78th ACS Colloid and Surface Science Symposium (Yale, 2004) [Session Chair]* |
|  | **Magnetic Resonance Studies of Polymer - Surfactant Systems**  *BRSG: The Magnetic Resonance Group “Slow motions” (Surrey, 16th April 2004)* [Invited Speaker] |
|  | **Putting the spin into micelles**  *Large Scale Structures Meeting, (ISIS Rutherford Appleton Laboratory, 2004)* |
|  | **Using polymers to control the stability of non-aqueous suspensions**  *Advances in Non Aqueous Colloids (SCI, London, 2004)* [Invited Speaker] |
|  | **Putting the spin into micelles**  *Founders Lecture Chains and Bondage (T Cosgrove) (SCI, London, 2004)* [Invited Speaker] |
|  | **Polymers and Surfactants in Solution and at Interfaces**  *Structure, Properties and Applications of Surfactants (SCI, London, 19th May 2004).* [Invited Speaker] |
|  | **Magnetic Resonance Studies of Polymer - Surfactant Systems**  *Department of Chemistry, University of Surrey, (2004)* |
|  | **Characterising the structure-activity relationships of pharmaceutically relevant polymers**  *British Pharmaceutical Conference (Manchester, 26-28th September 2005)* [Invited Speaker] |
|  | **The micellization and characterisation of metallosurfactants**  *ECIC VII (27 June – 1st July 2005, Loughborough)* [Plenary Lecture] |
|  | **“Nano” Characterisation Methodologies : Spectroscopy, Scattering and Reflection**  *Nanomedicine - a new opportunity for improving diagnosis, prevention and treatment for disease (2006, Sant Feliu de Guixols, Spain)* |
|  | **Connecting the nano and macro scale**  *Founders Lecture Designer Molecules for Interfacial Activity (A Pitt) (SCI, London, 2007)* [Invited Speaker] |
|  | **Teaching Molecules to do Tricks**  *University of Greenwich* (17th October 2007) |
|  | **SANS: an analytical technique to study Biopolymers**  *7th International Symposium on Polymer Therapeutics* (Valencia, 2008*)* |
|  | **SANS: an analytical technique to study Biopolymers**  *Cellular Delivery of Therapeutic Macromolecules*  (Cardiff, 2008*)* [Invited Speaker & Discussion Facilitator] |
|  | **SANS and NMR studies of the solution properties of biopolymers**  *2nd ESF Summer School on Nanomedicine* (Lisbon, 2009*)* [Invited Speaker & Discussion Facilitator] |
|  | **SANS: an analytical technique to study Biopolymers**  *Association in Solution – Structure, Function and Performance* (Portugal, 2009) [Invited Speaker] |
|  | **The interaction of polymeric drug delivery vehicles with model interfaces.**  *Surface Science of Biologically Important Interfaces* (Keele, 2009) [Invited Speaker] |
| *32.* | **Physico-chemical techniques for analysis of structure and rates of diffusion in biological systems**  *8th International Symposium on Polymer Therapeutics* (Valencia, 2010) [Plenary Speaker] |
| *33.* | **Use of SANS and EPR to study the interactions of an endosomolytic polyamdioamine ISA23 with vesicles mimicking intracellular membranes**  *Macro2010* (Glasgow, 2010) |
| *34.* | **Small-angle neutron scattering studies of the solution conformation of model polymer therapeutics and their interaction with vesicles and proteins**  *Polymeric Biomaterials Conference* (University of Reading, 2010) |
| *35.* | **Small-angle scattering; Is there a more versatile technique ?**  *S4SAS* (Cardiff University, 2010) |
| *36.* | **The Blackart of Formulation; Competitive Interactions in Polymeric Surfactant/Anionic Surfactant/Cosolvent/Cosurfactant Systems?**  *Surfactants in Solution* (Melbourne, 2010) [Invited Speaker] |
| *37.* | **The Interaction of Surfactant Micelles and Vesicles with a pH Responsive Polymer?**  *Surfactants in Solution* (Melbourne, 2010) |
| *38.* | **Metallosurfactants – Self-Assembled Metal Surfaces**  *Colloids 2011 (Canary Wharf, 2011)* |
| *39.* | **Small-angle neutron scattering for characterizing microstructures**  *Loughborough University* (Chemical Engineering, 2011) |
| *40.* | ***Probing interactions of polymers (, particles & surfactants) with bio-interfaces and bio-media***  *London* (SCI, 2013)[Invited Speaker] |
| *41.* | ***Bubbles, snot and slime*** *University of Lund* (Sweden, 2013) [Invited Speaker] |
| *42.* | **Using SANS and NMR to study diffusion, solution conformation and bio-interface interactions**  *10th International Symposium of Polymer Therapeutics*, (Valencia, 2014) |
| *43.* | ***Understanding the structure-function relationships of colloidal drug delivery vehicles with neutron scattering and spin resonance*** *Colloids 2014* (London, 2014) |
| *44.* | ***The interfacial structure of small molecule surfactant, polymeric surfactant and particle stabilised air-in-water foams*** *5th International Colloids Conference* (Amsterdam, 2015)) |
| *45.* | ***Quantifying Complex Nanostructures*** *Agrochemical Formulation* (Berlin, 2015) |
| *46.* | ***Self-diffusion measurements - a sensitive and versatile technique to quantify structure and interactions in soft matter*** *NMR Discussion Group* (Manchester, 2015) |
| *47.* | ***Future Applications of Small-Angle Scattering to Soft Matter*** *SCI (Didcot, 2016)* |
| *48.* | ***How mucin structures the mucus barrier*** *Macro2016, (Turkey, 2016)* |
| *49.* | ***In order to cross the mucus barrier, one must first understand its structure*** *EuCheMS, (Seville 2017)* |
| *50.* | ***The mucus barrier – friend or foe?*** *Innovation in Drug Delivery; site-specific drug delivery (Nice, 2016)* |
| *51.* | ***Bubbles, snot and slime*** *(Dublin, 2017)* |
| *52.* | ***NMR diffusion and electrophoresis in bio- and synthetic polymer solutions and gels*** *(Milan, 2018)* |
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1. http://www.rsc.org/chemistryworld/News/2009/July/08070902.asp [↑](#footnote-ref-1)
2. *Delivering drugs through mucin* Pharmaceutical Technolog Europe January 2010 p24 [↑](#footnote-ref-2)
3. *You want it where ?* IA Fallis, SJ Pope, PC Griffiths, A Paul, RK Heenan ISIS Annual Report 2011, p11 [↑](#footnote-ref-3)
4. *Towards A Detailed Mechanistic Study of Small Heat-Shock Chaperone Protein Action*, Oliver J. Burrows, Alison Paul, Justyn W. Regini, M. Haertlein, P Callow and Peter C. Griffiths ILL Annual Report *Biology* 2011, p54 [↑](#footnote-ref-4)
5. http://www.isis.stfc.ac.uk/about-isis/journey-through-isis/the-journeys-aim7649.html [↑](#footnote-ref-5)