Julian Eastoe

1. Personal Information

Name	Julian Grahame Eastoe
Date of birth	12.1.65
Family status	married – 18 years - with four children - 17, 15, 13 and 11 years old

2. Present appointment

Personal Chair in Chemistry, School of Chemistry, University of Bristol since 01.08.04.
Director of International Affairs since 01.10.05.

3. Previous appointments

1.8.98–31.7.04	Reader in Physical Chemistry, School of Chemistry, University of Bristol.
1.4.93-31.7.98	Lectureship, School of Chemistry, University of Bristol.
1.9.92-31.3.93	Lectureship, Department of Chemistry, University of Durham.
1.6.91-30.9.92	Physicist (Instrument Scientist) Institut Max-von-Laue Paul-Langevin, Grenoble, France.
	This included a one-year secondment to the ISIS Neutron Facility Rutherford Appleton Laboratory UK
1.4.90-1.6.91	Senior Research Associate, School of Chemical Sciences, University of East Anglia.

4. Academic qualifications

1990	PhD - UEA - *Influence of Pressure on the Structure and Stability of Microemulsions*
1986	BSc II(i) Chemistry, University of East Anglia.
1983	A' Levels - Chemistry A - Physics A - Mathematics B.
	Solihull 6th Form College.

In between finishing my B.Sc.(June 1986) and starting my Ph.D. (October 1987) I worked as an Analytical Chemist for Williams' Dyestuffs, Hounslow and also travelled extensively in Asia and Europe.

5. Special awards

In 1999 was awarded the *Clifford Wharton Prize for Excellence in Teaching in the School of Chemistry* in recognition of my efforts in Undergraduate and post-graduate teaching. The citation for this award is given as an Appendix.

In Oct 2002 I was made visiting professor at the China Research Institute for Daily Chemical Industry (RIDCI) Taiyuan China, and in Dec, 2003 in the College of Molecular and Chemical Sciences at the University of Wuhan, China.

6. Teaching

The main teaching achievements, demonstrated by the award of the *Wharton Prize***,** are to deliver lectures with coherence and clarity, enthusiasm and energy.

Extensive back-up material is provided to facilitate the students' understanding. For each separate course I prepare an extensive hand-out containing a justification, summary, numbered figures, reading references, workshop/tutorial questions and revision questions. This material appears on the OHP during the course, and the numbered diagrams are linked in to the lecture notes, which I write up on the chalkboards. I take the full responsibility for all the lectures, workshops, tutorials and practicals associated with these units. In addition to hand-outs, I have also produced back up texts for all of the courses; these contain detailed the explanations and workings. Material associated with my lecture courses is available as tutorial papers in the Worsley Chemistry library.

(i) Undergraduate and taught postgraduate units in Chemistry

year	title	lectures	contact hours	students	dates
3rd	Self-Assembly	6	12	120	1993-
2nd	Chemical Kinetics	6	12 + 24 lab.	120	1994-
2nd	Chemical Equilibria	6	12	120	1998-2002
1st	Chemistry and Time Kinetics	6	6 + 18 lab.	300	1995-
1st	Tutorials in Physical Chemistry		24	12	

Units in years 2 and 3 are supported by workshop sessions (6 x 50 min per course). My responsibility is to provide question sheets for the students, and answers for the other academic helper.

In addition I am involved in the weekly 2nd year and 3rd year Physical Chemistry Problem Classes – a recent innovation aimed at improving problem-solving skills. This includes setting general questions for the sheets and 10 - 12 contact hours per year.

Practicals

Chemistry is an experimental subject and I put special effort into the laboratory classes. I am responsible for one of the eight 2nd year practicals in Physical Chemistry (Chemical Kinetics). Each week I spend about one and a half hours on an introductory talk, checking on the progress of the experiments, and giving a debriefing session to the group at the end of the day. The aim is to illustrate the close links between the experiment and its background theory. I have also marked all the scripts for this practical.

Postgraduate courses M.Sc. Surface Chemistry and Colloids (1993-99)

title	lectures	contact hours	students	dates
Self-assembly systems	6	6	10	1993-1999
Thin films	6	6	10	1993-1999
Postgraduate School of Chemistry (2000- present)				
Adsorption and aggregation of surfactants	4	4	10	2000-

(ii) Major teaching responsibilities in previous years

year	title	lectures	contact hours	students	dates
1st	Maths 1S (1994-96)	10	10	20	1994-6

(iii) Innovatory units or teaching methods

Document "Good Teaching Practice in The School of Chemistry"

In 1998- 99 I was the chair of a Working group, and authored an 11-page document, identifying good teaching practices across the undergraduate programme in the School of Chemistry. The paper was not intended to be a rulebook, but rather to offer guidelines for all of those involved in teaching, be they academic staff members, post-doctoral workers or post-graduate students.
In 2003 I have revised and updated this document, and the new version is planned for release at the end of the year.

Web-based multiple choice questions

In support of year 1 lectures (kinetics) a set of multiple-choice questions have been posted on the local TAL web-page. These questions are similar in format to one half of the end of year examination: incorrect attempts are offered a hint, to prompt the correct answer. Hence, they are not only a revision aid, but also provide training in "exam technique".

Memory aids

Earlier on in my Academic career, I was troubled that many students could not identify or recall certain equations that were central to the courses I delivered. It seemed that there was a lack of familiarity with these concepts, despite their cyclical use throughout the lecture/workshop units. As a test, I made up white T-shirts, bearing one of these equations on front and back, and wore the garments whilst lecturing. This unconventional method appeared to work, by constantly reminding the students of the key equations, their recall seemed to have measurably improved (especially in workshops and during examinations). Since then I have made a (limited) set of shirts, relevant for each different course, and the T-shirts remain a part of my lecturing technique.

(iv) Contributions to continuing education

1. Bristol Spring School in Colloid Science - held annually

unit title	lectures	delegates
Surfactants	1	25-30 normally
Emulsions and Microemulsions	1	25-30

2. Lecturer on Industrial courses given in the School by the Bristol Colloid Centre

1994	Emulsions and Foams
1994	Surfactants and Wetting
1997 and 1999	Total Colloid Stability
2002	Fluid interfaces – awareness day
2004	Members' awareness forum

3. Lecturer on an internal training course in colloid science at Unilever Port Sunlight. June 2003.
4. Lecturer on course *Introduction to Surface Chemistry* organised by Kruss GmbH. June 2001 and April 2006.

5. Lecturer on *Colloid Science and Pharmaceutical Formulations* an in-house course for Vectura a local spin-off SME at the University of Bath. May 2001.
6. Lecturer on course *School of Industrial Surface Chemistry* organised by Camtel Ltd. Oct. 1999.
7. Lecturer on a short course called *Particle Sizing and Surface Characterisation* held at University of East Anglia Norwich UK June 1995.

(v) Post-graduate supervision

Ph.D. students	funding		status	first destination
P.G.A.Rogueda [+]	Kodak	1993-96	graduated Feb 1997	Astra Zeneca
E.R.Crooks [○]	EPSRC earmarked	1994-97	graduated July 1998	Thorn EMI
K.J.Hetherington [▪]	EPSRC quota	1994-97	graduated July 1998	Unilever
J.Dalton [▪]	EPSRC earmarked	1995-98	graduated July 1999	Post-doc ECC
B.Warne [+]	EPSRC earmarked	1995-98	graduated Feb 2000	Nanomagnetics
A.Bumajdad [○]	Kuwait Govt.	1996-99	graduated Feb 2001	Univ. Kuwait
A.Downer [+]	EPSRC CASE - Kodak	1996-99	graduated Feb 2001	PDRA Durham
A.Paul [○]	EPSRC earmarked	1997-2000	graduated Feb 2002	PDRA Cardiff
A.Rankin [▪]	EPSRC quota	1997-2000	graduated July 2002	computing
S.Nave [○]	University scholarship	1997-2000	graduated Feb 2002	Astra Zeneca
M.Summers [▪]	EPSRC quota	1998-2001	passed July 2002	nuclear industry
A.Dupont [+]	University scholarship	2000-2003	submitted Oct 2003	Patent Attorney
M.Sanchez Dominguez [○]	Mexican Govt.	2000-2003	passed June 2002 joint with Dr. P.Wyatt	CNRS PDRA
L.Martin [▪]	EPSRC CASE – Kodak	2001-2004	passed July 2005	
S.Hicks [○]	EPSRC CASE Disperse Technologies	2001-2004	joint with Prof. T.Cosgrove forth year	
S.Rogers [▪]	EPSRC	2002-2005	forth year	
C.Seguin [○]	Huntsman/Chemistry	2003-2006	third year	
S.Gold [○]	DTA	2003-2006	third year	
L.Hudson [○]	EPSRC industrial CASE	2004-2007	second year	
M.Hollamby	Kodak/Everett grant	2005-2008	first year	
K.Much[○]	EPSRC	2005-2008	first year joint wit Dr. J vanDuijneveldt	

[○] - first degree from another University – recruited from outside Bristol
[+] - recruited from the Bristol M.Sc. in Colloid Science, but with a first degree from another University
[▪] - previously carried out an undergraduate research project at Bristol under my direction

I am currently second assessor to three other Ph.D. students

M.Sc. students - supervision of summer projects and research theses for the Colloids M.Sc.

1993	P.G.A.Rogueda, S.R.Chatfield
1994	A.R.Cox, S.Stebbings, D.Crichton examiner for T.Comyn
1995	Z.Bayazit, A.Lodhi, B.Cazelles
1996	A.Bumajdad, A. Hale
1997	M.Eskici

I have acted as second assessor for more than ten other M.Sc. students at the University of Bristol.

Undergraduate students

Like most research group leaders in the School of Chemistry I supervise an average of 3 undergraduate research projects per year. Hence, I have been responsible for research training of around 36-40 students. Six of these have stayed on in my group as PhD students.

7. Research

My research is in the general area of Colloid Science, specifically in surface and interfacial aspects involving novel surfactants and polymers. Key advances have been made in green chemistry, nanotechnology, surface characterisation and functionalisation, as well as fundamental aspects of surfactant science.

The group develops new functionalised surfactants for various applications. Therefore, molecular design, synthesis, NMR and Mass Spectroscopy are important aspects. A wide variety of techniques are employed to probe interfacial and self-assembly properties. Tensiometric methods are key, and my group has available a wide range of equipment (drop shape analysis, drop volume, maximum bubble pressure, spinning-drop and duNouy-Wilhelmy equipment, as well as a custom-built surface light scattering rig). Neutron scattering methods are important, and regular use is made of national and international facilities.

Collaborations have been fostered in the School of Chemistry (Dr. Paul Wyatt – Organic, Prof. Terence Cosgrove – Physical, Prof. Robert Richardson - Physics), and elsewhere in the UK (Dr. David Steytler - UEA Norwich, Prof. Colin Bain –Durham , Dr. Andrew Beeby – Durham, Prof Graham Hutchings – Cardiff, Dr. Peter Griffiths – Cardiff, Dr. Richard Heenan – ISIS, Prof. Steve Armes - Sussex). Worldwide, links have been established with groups in Austin, Götenbourg, Nagoya, Nice, Strasbourg and Avignon, Rome, Cork and Köln. Visitors have come to work in the group from Mexico, Kuwait, India, China, Sweden, Japan, Germany, and France.

The research has attracted interest from Industrial companies and I have current, or recent, contracts with Kodak, Unilever, Disperse Technologies, Infineum, Omnova, Eli Lilly, Syngenta and Huntsman Surface Science. In addition I have been invited to act as a consultant for Unilever, Odeco Nalco, Huntsman Surface Science, Eli Lilly, Infineum, Astra Zeneca, Aveica, Glaxo, AEE Technologies and Enterprise Ireland.

Research in external laboratories

I believe that it is essential to foster links with external groups, especially overseas. This means that one must be prepared to travel, and I particularly want my Ph.D. students to appreciate this. A good example is in carrying out experiments in external laboratories, such as the Institute-Laue-Langevin in France, where there is an important need to get it right, first time. This requires good preparation, also foresight and a perception of the difficulties that may be encountered.

(i) Publications

Authored book

"Surfactant Science" – Wuhan University Press, December 2005.

This book is based on lectures I gave in October 2002 in Taiyuan China. The book includes Chinese translations of the English chapters. Chinese colleagues carried out the translation.

Official reports

1. Report on Irish Centre for Colloid Science and Biomaterials - Academic and Scientific Aspects Dr. Julian Eastoe and Prof. Brian H. Robinson October 2000.

More detail about this activity is given below under section *7 iv Indications of external recognition - External evaluations editorial boards and international committees.*

2. In July 2005 I was commissioned by CCLRC, with two other Professors (Manchester and UCL) to prepare a report on "The potential of neutron scattering to enhance research training in the UK". This was completed in November 2005, and contributed towards a bid for a new generation neutron scattering centre in UK, to be assessed by the UK Minister for Science and Innovation Lord Sainsbury.

3. In December 2005 submitted a 6-page report to the Science Faculty of Kuwait University on the on the activities of the Chemistry Department in Kuwait.

Academic journal papers (refereed), conference contributions (refereed) and review articles

The majority of these publications are refereed academic journal papers; conference contributions (refereed) and review articles are identified in the sub-heading. The starred author, as appears in the journal, is indicated.

For publications since 1998 a format code, defined above the section for 1998, identifies the level of my contribution.

1988

1. *Microemulsions in Near-Critical and Supercritical Fluids* – conference contribution

D.C.Steytler[*], J.Eastoe, B.H.Robinson, D.C.Lovell, P.Moulson and P.Richmond, Int.Symp.Supercritical Fluids, Soc.Fr.Chem, 1988, 67-69.

1990

2. *Influence of Pressure and Temperature on Microemulsion Stability*
J.Eastoe, B.H.Robinson* and D.C.Steytler, J.Chem.Soc. Faraday Trans., 1990, 86, 511-17.

3. *Scattering Studies of Microemulsions in Low Density Alkanes*
J.Eastoe, B.H.Robinson*, D.C.Steytler and W.K.Young, J.Chem.Soc.Faraday Trans., 1990, 86, 2883-89.

4. *A Study of Microemulsion Stability* – conference contribution
J.Eastoe, B.H.Robinson* and D.C.Steytler, in "The Structure, Dynamics and Equilibrium Properties of Colloidal Systems", eds. D.M.Bloor, E.Wyn-Jones, NATO ASI Series C Vol.324, 1990, 295-28.

5. *Structure and Interactions of Microemulsions in a Plastic-Crystalline Phase*
J.Eastoe, B.H.Robinson*, D.C.Steytler and J.C.Dore, Chem.Phys.Letts., 1990, 166, 153-58.

1991

6. *Rotational Dynamics of AOT Reversed Micelles in Near-Critical and Supercritical Alkanes*
J.Eastoe, B.H.Robinson*, A.J.W.G.Visser and D.C.Steytler, J.Chem.Soc. Faraday Trans., 1991, 87, 1899-1903.

7. *Steric Interactions Between Microemulsion Droplets in a Plastic-Crystalline Phase*
J.Eastoe, B.H.Robinson, D.C.Steytler* and J.C.Dore, in Food Polymers, Gels and Colloids, ed. E.Dickinson, RSC Special Publication No. 82, 1991, 469-76.

8. *Structural Studies of Aerosol-OT Microemulsions* – review article
J.Eastoe, B.H.Robinson* and D.Thorn-Leeson, Adv.Col.Int.Sci,1991, 36, 1-31.

1992

9. *Variation of Surfactant Counterion and Effect on the Structure and Properties of Aerosol-OT Based Water-in-Oil Microemulsions*
J.Eastoe, B.H.Robinson*, G.Fragneto, T.F.Towey, R.K.Heenan and F.J.Leng, J.Chem.Soc. Faraday Trans., 1992, 3, 461-73.

10. *SANS From Novel AOT Microemulsions* – conference contribution
J.Eastoe*, R.K.Heenan, B.H.Robinson, G.Fragneto and D.C.Steytler, Physica B, 1992, 180/181, 555-57.

11. *SANS From Dilute Didodecyldimethylammonium Bromide Water-in-Oil Microemulsions - Evidence for Polymer-like Aggregates*
J.Eastoe*, Langmuir, 1992, 8(6), 1503-06.

[*] leading author

1993

12. *Structures of Metal bis,2-ethylhexylsulphosuccinate Aggregates in Cyclohexane*
J.Eastoe*, B.H.Robinson, T.F.Towey, J.Williams and R.K.Heenan, J.Phys.Chem., 1993, 97, 1459-63.

13. *Effects of Solidification of the Oil Phase on the Structure of Colloidal Dispersions*
J.Eastoe, B.H.Robinson, D.C.Steytler*, I.P.Macdonald, K.Ibel and J.C.Dore, Langmuir 1993, 9, 903-11.

14. *Water-in-Oil Microemulsions Formed by Ammonium and Tetrapropylammonium Salts of Aerosol-OT*
J.Eastoe*, B.H.Robinson and R.K.Heenan, Langmuir,1993, 9, 2820-24.

1994

15. *Pressure-induced Structural Changes in Water-in-Propane Microemulsions*
J.Eastoe*, D.C.Steytler, B.H.Robinson and R.K.Heenan, J.Chem.Soc.Faraday Trans., 1994, 90, 3121-7.

16. *Water-induced Structural Changes Within the L_2 Phase of DDAB/Cyclohexane/Water Systems*, J.Eastoe* and R.K.Heenan, J.Chem.Soc. Faraday. Trans 1994, 90, 487-92.

17. *Lamellar Aggregates in the L_2 Phase of a Non-ionic Silicone Surfactant (L77-OH)*
D.C.Steytler*, D.L.Sargent, B.H.Robinson, J.Eastoe and R.K.Heenan, Langmuir, 1994, 10, 2213-2318.

18. *Structure of Cobalt Aerosol-OT Reversed Micelles Studied by Small-angle Scattering Methods*
J Eastoe*, D.C.Steytler, B.H.Robinson, R.K.Heenan, A.N.North and J.C.Dore, J.Chem.Soc.Faraday Trans., 1994, 90, 2497-504.

19. *Effect of Counterion Radius on Surfactant Properties in Winsor II Microemulsion Systems*
J.Eastoe*, S.Chatfield and R.Heenan, Langmuir, 1994, 10, 1650-1653.

20. *Solubilisation of C_{60} in Aqueous Micellar Solution*
A.Beeby, J.Eastoe* and R.K.Heenan, J.Chem.Soc.Chem.Comm., 1994, 10, 173-175.

21. *Properties of a Di-Chain Sugar Surfactant*
J.Eastoe*, P.Rogueda, Bill J.Harrison, A.M.Howe and A.R.Pitt., Langmuir, 1994, 10, 4429-43.

1995

22. *Formation of PbS Nanoclusters Using Reversed Micelles of Lead- and Sodium Aerosol-OT*
J.Eastoe* and A.Cox, Coll. Surf, 1995, 101, 63-76.

23. *Structure and Photophysics in C_{60}-Micellar Solutions*
J.Eastoe*, E.Crooks, A.Beeby and R.K.Heenan, Chem.Phys. Lett., 1995, 245, 571-77.

24. *Small-angle Neutron Scattering and Neutron Reflection* – review article
J.Eastoe*, Chapter 12 in New Physico-Chemical Techniques for the Characterisation of Complex Food Systems. ed. E.Dickinson, Blackie, Glasgow 1995 .

25. *Surface light scattering from mixed surfactant-oil monolayers*
J.Eastoe* and D.Sharpe, Langmuir, 1995, 11, 4636-4638.

1996

26. *Structure in Microemulsions of Di-chain Surfactants*
J Eastoe*, J.Dong, K.Hetherington, D.C.Steytler and, R.K.Heenan, J.Chem. Soc Faraday Trans. 1996, 92, 65-72.

27. *Droplet Structure in a Water-in-CO_2 Microemulsion*
J.Eastoe*, D.C.Steytler, Z.Bayazit, S.Martell, R.K.Heenan, Langmuir, 1996, 12, 1423-25.

28. *Structure of Reversed Micelles Formed by Metal Salts of Bis(ethylhexyl) Phosphoric Acid*
D.C.Steytler*, T.R.Jenta, B.H.Robinson, J.Eastoe, R.K.Heenan, Langmuir, 1996, 12, 1483-89.

29. *Mixing of Alkanes with Surfactant Monolayers in Microemulsions*
J.Eastoe*, J.Dong, K.J.Hetherington, D.Sharpe, D.Steytler, R.K.Heenan, Langmuir, 1996, 12, 3876-880.

30. *Properties of New Glucamide Surfactants*
J.Eastoe*, P.Rogueda, A.M.Howe, A.R.Pitt., R.K.Heenan, Langmuir, 1996, 12, 2701-705.

31. *Properties of Surfactant Monolayers Studied by Surface Light Scattering*
D.Sharpe and J.Eastoe*, Langmuir, 1996, 12, 2303-307.

32. *Interfacial Properties of a Catanionic Surfactant*
J.Eastoe*, P.Rogueda, J.Dalton, J.Dong, D.Sharpe, J.R.P.Webster, Langmuir, 1996, 12, 2706-711.

33. *Micelles of Assymetric Chain Catanionic Surfactants*
J.Eastoe*, P.Rogueda, D.Shariatmadari, R.K.Heenan, Coll. Surf. A 1996, 117, 215-225.

34. *Nanoparticle Synthesis in Microemulsions* – review article
J.Eastoe* and B.Warne, Curr.Op.Coll.Sci, 1996, 800-805.

35. *Preparation of Colloidal Cobalt using Reversed Micelles*
J.Eastoe*, S. Stebbing,J.Dalton and R.K.Heenan, Coll.Surf A, 1996, 119, 123-31.

36. *Measurement of Interparticle Forces from the Osmotic Pressure of Partially-Frozen Dispersions* – conference contribution
J.Eastoe, B.H.Robinson, D.C.Steytler*, I.P.Macdonald, K.Ibel and J.C.Dore, J.Phys.Cond.Matt 1996, 8, 953-56.

37. *Remarkable Stability of $C_{60}^{-\cdot}$ In Micelles*
A.Beeby*, J.Eastoe, E.Crooks, J.Chem.Soc. Chem.Comm, 1996, 901-02.

1997

38. *Bending Energies of Di-chained Surfactant Films in Microemulsions* – conference contribution
J.Eastoe*, D.Sharpe and R.K. Heenan, Prog. Coll.and Polym Sci., 1997, 105, 340-45.

39. *Dynamic Surface Tensions of Non-ionic Surfactant Solutions*
J.Eastoe*, J.S.Dalton, P.G.A.Rogueda, E.R.Crooks, A.R.Pitt and E.A.Simister, J.Coll.Int.Sci., 1997, 188, 423-30.

40. *Microemulsions with Didodecyldimethylammonium Bromide Studied by Neutron Contrast Variation*
J.Eastoe*, K.J.Hetherington, J.S.Dalton, D.Sharpe, J.R.Lu and R.K.Heenan, J.Coll.Int.Sci, 1997, 190, 449-55.

41. *Droplet Structure in Phosphocholine Microemulsions*
J.Eastoe*, K.J.Hetherington, D.Sharpe, D.C.Steytler, S.Egelhaaf and R.K.Heenan, Langmuir, 1997, 13, 2490-93.

42. *Rigidities of Cationic Surfactant Films in Microemulsions*
J.Eastoe*, D.Sharpe, S.Egelhaaf and R.K.Heenan, J.Phys.Chem., 1997, 101, 944-48.

43. *Properties of Phosphocholine Microemulsions and the Film Rigidity Model*

J.Eastoe* and D.Sharpe, Langmuir, 1997, 13, 3289-94.

44. *Films of Di-chained Surfactants in Microemulsions* – conference contribution
J.Eastoe*, K.J.Hetherington, D.Sharpe, J.Dong, D.C.Steytler, and R.K.Heenan, Coll. Surf. A. 1997, 128, 209-15.

45. *Photoexcited Fullerene Species in Triton-X100 Micelles*
J.Eastoe*, E.R.Crooks and A.Beeby, J.Chem.Soc. Faraday Trans. 1997, 93, 4131 - 4136.

46. *Lanthanide-containing Reversed Micelles: A Structural and Luminescence Study*
J.Eastoe, A.Beeby*, B.Warne, I.M.Clarkson and S.Faulkner, Langmuir, 1997, 13, 5816 - 5819.

47. *Interparticle Forces from Osmotic Pressure Measurements in Frozen Dispersions* – conference contribution
J.Eastoe, B.H.Robinson, D.C.Steytler*, I.P.Macdonald, K.Ibel and J.C.Dore, contribution to Surfactant Science Series ed. D.O.Shah, Marcel Dekker 1997, p 363 - 386.

48. *Invasive and Non-invasive Measurements of Dynamic Surface Tensions*
S.Manning-Benson, C.D.Bain*, R.Darton, J.Eastoe, D.Sharpe and P.Reynolds, Langmuir, 1997, 13, 5808 - 5810.

49. *Water-in-CO_2 Microemulsions Studied by Small-angle Neutron Scattering.*
J.Eastoe*, B.M.H.Cazelles, D.C.Steytler, J.D.Holmes, A.R.Pitt, T.J.Wear and R.K.Heenan, Langmuir, 1997, 13, 6980 - 6984.

Publications since 1998

There have been 53 refereed publications and 3 non-refereed articles.

The majority of publications have been in high quality international journals like *Langmuir, Journal of the American Chemical Society, Chemistry of Materials and Macromolecules* (30), *Journal of Colloid and Interface Science* (5) and *Physical Chemistry Chemical Physics* or *Faraday Transactions* (4). There have been 4 refereed reviews and 5 refereed conference contributions. For each publication the following code identifies my level of contribution.

principal investigator – I instigated the research, raised the necessary funds, and/or was awarded the neutron beam time, designed the experiments, was involved in some experimental work carried out and/or advised on data analysis. I managed the project including instruction of Post-Docs and Ph.D. students. I was responsible for writing the paper, submitting it to the journal and responding to Referees' comments.

equal contributor – The research was a collaboration between different groups, financial inputs, research tasks, and author responsibilities were shared. The level of contribution varies on a case-by-case basis, and so it is reasonable to apportion the effort equally between all authors.

normal type face – other authors were the major contributors

1998 – seven refereed publications

50. *Characterisation of water-in-oil microemulsions formed in silicone oils.*
D.C.Steytler*, P.Dowding, B.H.Robinson, J.D.Hague, J.H.S.Rennie, C.A.Leng, J.Eastoe, R.K.Heenan, Langmuir,1998, 14, 3517 - 3523.

51. *Evidence for activated-diffusion controlled dynamic surface tension with a non-ionic surfactant*
J.Eastoe*, J.S.Dalton, P.G.A.Rogueda and P.C.Griffiths, Langmuir, 1998, 14, 979-981.

52. *Mixing in cationic surfactant films studied by small-angle neutron scattering*
J.Eastoe*, A.Bumajdad, R.K.Heenan, J.R.Lu, D.C.Steytler and S.Egelhaaf, J. Chem. Soc. Faraday Transactions, 1998, 94, 2143-2150.

53. *Percolation in non-ionic microemulsion systems*
G.Ilgenfritz*, S.Lipgens, D.Schubel, L.Schlicht, J.Eastoe and R.K.Heenan, Langmuir, 1998, 14, 1041 - 1049.

54. *Dynamic surface tensions and micelle structures of di-chained phosphatidylcholine surfactant solutions*
J.Eastoe*, J.S.Dalton and R.K. Heenan, Langmuir, 1998, 14, 5719 - 5724.

55. *Breakdown kinetics of fluorocarbon micelles studied by stopped-flow small-angle X-ray scattering*
J. Eastoe*, J.S.Dalton, A.Downer, G.Jones and D. Clarke, Langmuir, 1998, 14, 1937 - 1939.

56. *Surface Light Scattering from Cationic Surfactant Films* – refereed conference contribution
J.Eastoe* and D.Sharpe, Coll.Surf. A., 1998, 143, 261-271.

1999 – seven refereed publications

57. *Raman scattering spectra of Aerosol-OT homologous sodium dialkylsulfosuccinates and the environment of their hydrophobic chains*
Y, Nagasoe, N. Ichiyanagi, H. Okabayashi*, S. Nave, J. Eastoe, C.J. O'Connor, Colloid and Polymer Science, 1999, 277, 947-956.

58. *Infrared absorption spectra of Aerosol-OT homologous sodium dialkylsulfosuccinates and the effect of crystal polymorphism on the environment of the succinate segment*.
Y. Nagasoe, N. Ichiyanagi, H. Okabayashi*, S. Nave, J. Eastoe, C.J. O' Connor, Colloid and Polymer Science, 1999, 277, 1051-1057.

59. *Effects of hydrophobic chain structure on adsorption of fluorocarbon surfactants with either CF_3- or H-CF_2-terminal groups*
A. Downer, **J. Eastoe***, A.R. Pitt, E.A. Simister, J. Penfold, Langmuir, 1999,15,7591-7599.

60. *Raman and IR spectroscopic studies of the interaction between counterion and polar group in self-assembled systems of AOT-homologous "sodium dialkyl sulfosuccinates"*
Y. Nagasoe, N. Ichiyanagi, H. Okabayashi*, S. Nave, J. Eastoe, C.J. O' Connor, Phys. Chem. Chem. Phys., 1999, 1, 4395-4407.

61. *Adsorption and micellisation of partially- and fully-fluorinated surfactants*
A. Downer, **J. Eastoe***, A.R. Pitt, J. Penfold, R.K. Heenan, Colloids and Surfaces A;, 1999, 156, 33-48.

62. *Interfacial compositions and phase structures in mixed surfactant microemulsions*
A. Bumajdad, **J. Eastoe***, P. Griffiths, D.C. Steytler, R.K. Heenan, J.R. Lu, P. Timmins, Langmuir, 1999, 15, 5271-5278.

63. *Oligo- and polyethylene glycols in water-in-oil microemulsions. A SANS study.*
D. Schubel, O.D.Bedford, G. Ilgenfritz*, J. Eastoe, R.K. Heenan, Physical Chemistry Chemical Physics, 1999, 1, 2521-2525.

2000 – ten refereed publications – one non-refereed publication

64. *Dynamic surface tension and adsorption mechanisms of surfactants at the air-water interface* – refereed review article
J.Eastoe* and J.S.Dalton, Adv.Coll.Int.Sci, 2000, 85, 103-144.

65. *Adsorption of fluorosurfactants at air-water and water-CO_2 interfaces* – refereed conference contribution
J. Eastoe*, A.M.Downer, A.Paul, D.C.Steytler* and E.Rumsey, Prog.Colloid.Polym.Sci., 2000, 115, 214.

66. *Studies of cationic and non-ionic surfactant mixed microemulsions by Small-Angle Neutron Scattering and Pulsed Field Gradient NMR* – refereed conference contribution
M.Giustini* , G. Palazzo, A.Ceglie, J.Eastoe, A.Bumujdad and R.K.Heenan.
Prog.Colloid.Polym.Sci., 2000, 115, 25-30.

67. *Adsorption of ionic surfactants at the air-solution interface*
J.Eastoe*, S.Nave, A.Rankin, A.Paul. A. Downer, K.Tribe and J.Penfold, Langmuir, 2000, 16, 4511-4518.

68. *Droplet interfacial structure studied by SANS contrast variation* – refereed conference contribution
J.Eastoe and R.K.Heenan*, J.Appl.Cryst, 2000, 33, 749-752.

69. *Vibrational spectra of Aerosol-OT homologous sodium dialkylsulfosuccinates - normal coordinate analyses of sodium diethylsulfosuccinate and sodium dimethylsulfosuccinate and their application to longer homologues.*
Y.Nagasoe, H.Okabayashi*, M.Abe, J.Eastoe, and C.J.O'Connor, Vibrational Spectroscopy, 2000, 23, 151-168.

70. *Fluoro-surfactants at air/water and water/CO_2 interfaces.*
J.Eastoe*, A.Downer, A.Paul, D.C.Steytler, E.Rumsey, J.Penfold, and R.K.Heenan, Phys.Chem.Chem.Phys., 2000, 2, 5235-5242.

71. *What is so special about Aerosol-OT? 1. Aqueous systems*.
J.Eastoe*, S.Nave and J.Penfold. Langmuir, 2000, 16**,** 8733-8740.

72. *What is so special about Aerosol-OT? 2. Microemulsion systems.*
J.Eastoe*, S.Nave, R.K.Heenan, D.C.Steytler and I.Grillo, Langmuir, 2000, 16, 8741-8748.

73. *Control over phase curvature using mixtures of polymerisable surfactants*.
J.Eastoe*, M.Summers and R.K.Heenan, Chem.Mat.Communications, 2000,12, 3533-3537.

74. *Mixed surfactant microemulsions* – non-refereed review article
J.Eastoe* and A.Bumajdad
Recent Research Developments in Physical Chemistry, 2000, 4, 337-350.

2001 – eight refereed publications

75. *Micellisation of hydrocarbon surfactants in supercritical carbon dioxide.*
J.Eastoe*, A.Paul, S.Nave, D.Steytler*, E.Rumsey, M.Thorpe, B.H.Robinson, R.K.Heenan, J.Am.Chem.Soc. Comm., 2001, 123, 988-989.

76. *The remarkable "flip-flop" self-assembly of a diblock copolymer in aqueous solution*
V.Butun, S.P.Armes*, N.C.Billingham, Z.Tuzar, A.Rankin, J.Eastoe* and R.K.Heenan, Macromolecules, 2001, 34, 1503-1511.

77. *Surfactant adsorption dynamics* – refereed review article
J.Eastoe*, A.Rankin, R.Wat and C.D.Bain
International Reviews in Physical Chemistry, 2001, 20, 1-30.

78. *Water-in-carbon dioxide macroemulsions and miniemulsions with a hydrocarbon surfactant*
K.P.Johnston*, D Cho, S.R.P. DaRocha, S.E.Webber, J.Eastoe, A.Dupont, D.C.Steytler, Langmuir, 2001, 17, 7191-7193.

79. *Polymerisation of cationic surfactant phases*
J.Eastoe*, M.Summers, S.Davis, Z. Du, R.M.Richardson, R.K.Heenan, D.Steytler, I.Grillo, Langmuir, 2001,17, 5388-5397.

80. *Phosphate surfactants for water-in-CO_2 microemulsions*
D.C. Steytler*, E.Rumsey, M.Thorpe, J.Eastoe*, A.Paul, R.K.Heenan,
Langmuir, 2001, 17, 7948-7950.

81. *Fluorinated non-ionic surfactants bearing either CF_3- or H-CF_2- terminal groups: adsorption at the surface of aqueous solutions*
J.Eastoe*, A.Paul, A.Rankin, R.Wat, J.Penfold, J.R.P.Webster
Langmuir, 2001, 17, 7873-7878.

82. *Polymerisation of cationic surfactant films in microemulsions*
J.Eastoe*, M.Summers, R.K.Heenan, D.Steytler, I.Grillo,
J.Disp.Sci.Tech, 2001, 22, 597-606.

2002 – seven refereed publications – one non-refereed publication

83. *Interaction between a Novel Gemini Surfactant and Cyclodextrin: NMR and Surface Tension Studies*
S. Abrahmsén-Alami*, E. Alami, J. Eastoe, T. Cosgrove
Journal of Colloid and Interface Science, 2002, 246, 191-202.

84. *Adsorption properties of novel gemini surfactants with non-identical headgroups*
E.Alami*, K.Holmberg and J.Eastoe
Journal of Colloid and Interface Science, 2002, 247, 447-455.

85. *What is so special about Aerosol-OT? Part III – glutaconate versus sulfosuccinate headgroups and oil-water interfacial tensions*
S. Nave, **J.Eastoe***, R.K. Heenan, D.Steytler, I.Grillo, Langmuir , 2002, 18,1505-1510.

86. *Effects of fluorocarbon surfactant chain structure on stability of water-in-carbon dioxide microemulsions. Links between aqueous surface tension and microemulsion stability*.
J.Eastoe*, A.Paul, A.Downer, D.C.Steytler and E.Rumsey, Langmuir, 2002, 18, 3014-3017

87. *Formation of $BaSO_4$ nano-particles in microemulsions with polymerised surfactant shells*
M. Summers, **J. Eastoe*** and S. Davis, Langmuir, 2002, 18, 5023-5026.

88. *Water-in-carbon dioxide microemulsions stabilised by fluoro-surfactants* – conference contribution – not refereed
J.Eastoe*, A.Paul, D.Steytler, E.Rumsey, R.K.Heenan, J.Penfold
Adsorption and aggregation of surfactants in solution, 2002, Marcel Dekker, (Eds. K.Mittal & D.O.Shah), chapter 16, 299-326,

89. *Properties of a stilbene-containing gemini photo-surfactant: light triggered changes in surface tension and aggregation*
J.Eastoe*, M.Sanchez-Dominguez, P.Wyatt*, A.Beeby, R.K.Heenan, Langmuir, 2002, 18, 7837-7844.

This paper featured on the journal cover

90. *Interactions between non-ionic gemini surfactant and cyclodextrins investigated by small-angle neutron scattering.*
E. Alami*, S. Abrahmsén-Alami, J.Eastoe, I.Grillo, R.K.Heenan, J.Coll.Int.Sci., 2002, 255, 403-409.

2003 – fifteen refereed publications and one non-refereed publication

91. *Applications of polymerizable surfactants* – refereed review article
M. Summers and **J.Eastoe***, Adv.Coll.Int.Sci, 2003, 100-102, 137-152.

92. *Design and performance of surfactants for carbon dioxide*– refereed conference contribution
J. Eastoe*, A. Dupont, A. Paul, D. C. Steytler* and E. Rumsey, ACS Symposium Series. Separations and Processes Using Supercritical Carbon Dioxide.

93. *Neutron reflection and small-angle neutron scattering studies of a fluorocarbon telomer surfactant*,
A.Dupont, **J.Eastoe***, P.Barthelemey, B.Pucci, J.Penfold and R.K.Heenan, J.Coll.Int Sci, 2003, 261 184-190.

94. *Micellisation of commercially viable surfactants for CO_2*,
J.Eastoe*, A.Dupont, D.C.Steytler, M.Thorpe, A.Gurgel and R.K.Heenan, J.Coll.Int Sci, 2003, 258, 367-373.

95. *Photosurfactants new and old* – non-refereed review article
M.Sanchez-Dominguez, P.Wyatt and **J.Eastoe***, Self-Assembly, IOS Press Amsterdam, Nov.2003. Editor B.H.Robinson.

96. *Dynamic surface excess of fluorocarbon surfactants*
J.Eastoe*, A.Rankin, R.Wat, C.D.Bain, D.Strykas and J.Penfold, Langmuir 2003, 19, 7734-7739.

97. *Measurement of the dynamic surface excess of the non-Ionic surfactant C_8E_4OMe by neutron reflection and ellipsometry*
D. Valkovska, K. M. Wilkinson, R.A. Campbell, C.D. Bain*, R. Wat and J. Eastoe, Langmuir 2003, 19, 5960-5962.

98. *pH Switching' for the Selective Extraction of Metal Ions into Supercritical CO_2*
J. P. Hanrahan, K. J. Ziegler, J.D. Glennon, D. C. Steytler, J. Eastoe, A. Dupont and J.D. Holmes*, Langmuir 2003, 19, 3145-3150.

99. *Compositions of mixed surfactant layers in microemulsions determined by small-angle neutron scattering*
A.Bumajdad, **J.Eastoe***, S. Nave, D.C. Steytler, R. K. Heenan and I. Grillo, Langmuir, 2003, 19, 2560-2567.

100. *Fluorinated surfactants in supercritical CO_2* – refereed review article
J.Eastoe*, A. Dupont and D.C.Steytler, Current Opinions in Colloid and Interface Science, 2003, 8, 267-273.

101. *Concentrated polymerized cationic surfactant phases*
M. Summers, **J. Eastoe*** and R.M.Richardson, Langmuir, 2003, 19, 6357-6363.

102. *Photoresponsive microemulsions*
J.Eastoe*, M.Sanchez-Dominguez, P.Wyatt, H.Cumber, G.Burnett, R.K.Heenan, Langmuir, 2003, 19, 6579-6581.

103. *Properties of mixed alcohol-zwitterionic surfactant films in quaternary microemulsions*
A. Bumajdad*, **J. Eastoe**, R.K.Heenan, Langmuir, 2003, 19, 7219-7225.

104. *Investigation of microstructure and dynamics of novel Gemini surfactant micelles by small-angle neutron scattering (SANS) and NMR self-diffusion*
E. Alami*, S. Abrahmsén-Alami, J.Eastoe, R.K.Heenan, Langmuir, 2003, 19, 18-23.

105. *Microemulsion formation in 1,1,1,2 tetrafluoroethane (R134a)*
D.C.Steytler*, M.Thorpe, J.Eastoe, A.Dupont, R.K.Heenan, Langmuir, 2003, 19, *accepted* July 2003.

106. *Determination of the dynamic surface excess of a homologous series of cationic surfactants by ellipsometry*
T. Battal, G.C.Shearman. D.Valkovska, C.D.Bain*, R.C.Darton, J.Eastoe, Langmuir, 2003, 19, 1244-1248.

107. *Frozen dispersions*
D.C.Steytler*, B.H.Robinson, J.Eastoe, J.D.Holmes and J.C.Dore. Self-Assembly, IOS Press Amsterdam, Nov.2003. p 112-120. Editor B.H.Robinson.

2004 – eleven refereed publications

108. *Conductivity of mixed surfactant water-in-oil microemulsions*
A.Bumajdad* and J.Eastoe, Phys.Chem.Chem.Phys. 2004, 6, 1597-1602.

109. *Light-sensitive microemulsions*
J.Eastoe*, M.Sanchez-Dominguez, P.Wyatt, H.Cumber, R.K.Heenan, Langmuir, 2004, 20, 1120-1125.

110. *Adsorption of Ionic Surfactants at an Expanding Air–Water Interface*
C.D.Bain, R.C.Darton, G.C.Shearman, D.Valkovska, J.Eastoe, Langmuir, 2004, 20, 4436-4445.

111. *Conductivity of water-in-oil microemulsions stabilised by mixed surfactants.*
A.Bumajdad* and J.Eastoe, J.Coll.Int.Sci., 2004, 274, 268-276.

112. *Surfactant-Free "Emulsions" Generated by Freeze-Thaw*
G.R. Burnett, R. Atkin, S.Hicks **J. Eastoe,** Langmuir, 2004, 20, 5673-5678.

113. *UV causes dramatic changes in aggregation with mixtures of photo-active and inert surfactants*
J. Eastoe, M. Sanchez Dominguez, P.Wyatt, A, Orr-Ewing, R.K.Heenan, Langmuir, 2004, 20, 6120-6126.

114. *Hybrid fluorocarbon-hydrocarbon CO_2-philic surfactants.1. Synthesis and properties of aqueous solutions.*
J. Eastoe*, A. Dupont, M. Murray, L. Martin, F. Guittard, E.Taffin de Givenchy, R. K. Heenan, Langmuir, 2004, 20, 9953-9959.

115. *Hybrid fluorocarbon-hydrocarbon CO_2-philic surfactants. 2. Formation and properties of water-in-CO_2 microemulsions.*
J. Eastoe*, A. Dupont, L. Martin, D.Steytler, F. Guittard, E.Taffin de Givenchy, R. K. Heenan, Langmuir, 2004, 20, 9960-9967.

116. *A photo-responsive organogel*
J. Eastoe*, M Sánchez-Dominguez, P, Wyatt. R.K. Heenan, Chem. Comm, 2004, 2608-2609.

117. Adsorption kinetics of ammonium perfluorononanoate at the air–water interface
M. Sekine , R. A. Campbell , D. S. Valkovska , J. P. R. Day , T. D. Curwen , L. J. Martin , S. A. Holt, J. Eastoe and C. D.Bain, Phys.Chem. Chem Phys. 2004, 6, 5061-5065.

118. *Microemulsion-based synthesis of CeO_2 powders with high surface areas and high-temperature stabilities*
A. Bumajdad, M.I Zaki*, J.Eastoe and L.Pasupulety, Langmuir, 2004, 20, 11223-11233.

2005 – six refereed publications and three book chapters

119 *Self-assembly in green solvents*
J. Eastoe* and S.Gold, Phys.Chem.Chem.Phys., 2005, 7, 1353-1362.

120 *Photo-stabilised microemulsions*
J. Eastoe*, M. Sánchez-Dominquez, A. Vesperinas, A. Paul, R.K. Heenan and I. Grillo, Chemical. Communications, 2005, 2785-2786.

121 *Ionic liquid-in-oil microemulsions*
J. Eastoe*, S. Gold, A. Paul, T. Welton, R.K. Heenan and I. Grillo, J.Am.Chem.Soc, 2005, 217, 7302-7303.

122. *Dynamics of adsorption of cationic surfactants at air-water and solid-liquid interfaces*
Rob Atkin Julian Eastoe*, Erica J. Wanless and Colin D. Bain, in "*Dynamics of Self Assemblies of Surfactant and Amphiphilic Block Copolymers:Micelles, Vesicles and Microemulsions"*edited by R. Zana, Surfactant Science Series vol 125, CRC press, Taylor & Francis, Chapter 8 p379-418.

123. *What is so special about Aerosol-OT? Part IV – phenyl-tipped surfactants*
J. Eastoe*, S. Nave, A.Paul, A. R. Pitt and R.K. Hennan, Langmuir 2005, *asap pages Sept 3 2005*

124. *Self-assembly of light-sensitive surfactants*
J. Eastoe* and A. Vesperinas, Soft Matter, 2005, 1, 338-347.

This paper featured on the journal cover

125. *Surfactant aggregation and adsorption at interfaces*
J. Eastoe, Chapter 4, p50-74, *Colloid science: principles, methods and applications*, edited T. Cosgrove Blackwell Publishing, Sept 2005. ISBN-10-4051-2673-6.

126. *Microemulsions*
J. Eastoe, Chapter 5, p77-96, *Colloid science: principles, methods and applications*, edited T. Cosgrove Blackwell Publishing, Sept 2005. ISBN-10-4051-2673-6.

127 *Photo-responsive surfactants in microgel dispersions*
M. Bradley*, B. Vincent, N. Warren, J.Eastoe, A. Vesperinas, Langmuir, 2005, 21 *asap pages* 30 Nov. 2005.

2006

128 *Photodestructible vesicles*
J. Eastoe*, A. Vesperinas, A-C. Donnewirth, P. Wyatt, I.Grillo, R.K. Heenan, S. Davis, Langmuir, 2006, 22, *asap pages* Jan. 2006

129 *Electron density matching as a guide to surfactant design*
R.F. Tabor, S.Gold, **J. Eastoe***, Langmuir, 2006, 22, *asap pages* Jan 2006

130 *Alternative non-aqueous water-miscible solvents for surfactants*
C. Segiun, **J.Eastoe***, R. Clapperton, R.k. Heenan, I.Grillo, Colloids and Surfaces A:, accepted Nov 2005.

131 *Nanotechnology in action: Overbased nanodetergents as lubriacnt oil additives*
L. K.Hudson, **J. Eastoe***, P. Dowding, Advances in Colloid and Interface Science, 2006, accepted Oct 2005.

132 *Recent advances in nanoparticle synthesis with reversed micelles*
J. Eastoe*, M. J. Hollamby, L. K. Hudson, Advances in Colloid and Interface Science, 2006

133 *Photodestructible surfactants in micromeulsions*
J. Eastoe*, Progress in Colloid and Interface Science, 2006

.

Other publications - patent
2000

1. *Liquid dry cleaning system comprising carbon dioxide and surfactant.*
J.Eastoe and D.C.Steytler. British patent no. 0027240.4. Filing date 10.11.00.

(iii) Research grants
1993

1. SERC (GR/J/79218) *Properties of Fullerenes in Structured Surfactant Phases* - £26,000 plus an ear-marked studentship.

2. Kodak UK helped fund a Ph.D. studentship (1993-96).

1994

3. AFRC (F01702) *New Phospholipid Microemulsions* - £100,000 - incl. 2 year Post-Doctoral Researcher. This established a surface laser light scattering facility at Bristol for studying properties of fluid interfaces.

4. EPSRC (GR/K64774) *Dynamics of Surfactant Adsorption* - £72,000 plus earmarked studentship - joint with Dr. Beeby, Chemistry Durham who was also awarded £40,000 and a studentship.

5. EPSRC (GR/K04804) *New Magnetic Surfactant Phases* - £21,000 plus earmarked studentship - joint with Dr. Richardson in Chemistry.

6. Royal Society (13608) *Bilayer Bending Energies* - £10,000.

7. CIBA Trust - Award for Collaboration with Europe - to work with Prof. Ilgenfritz, in Chemistry at the University of Cologne 1994-96 - £3000. (see publications 53 and 63). CIBA is a chemical company.

1995

8. British Council - £3,500 for consumables to support visiting scholar Ms. Dong 1995.

1996

9. EPSRC Realising Our Potential Award (GR/K85247) *Interfacial Rheology of Flowing monolayers* - £98,000 - incl. 2 year PDRA - joint with Dr. Reynolds of the Bristol Colloid Centre.

1997

10. EPSRC (GR/L05532) *Water-in-CO_2 Microemulsions* - £168,000 to Bristol including ear-marked studentship - joint with Dr. Steytler in Chemistry at the University of East Anglia, who was also awarded a similar sum.

11. Royal Society (17985) *Liquid Interfacial Tensions* - £10,000.

12. Astra Charnwood - agreed a £3,000 contract for research on novel surfactants.

1999

13. EPSRC (GR/M83780) *Surfactants at expanding liquid surfaces* - £102,329 to Bristol, as part of a £0.3M programme including neutron beam time. This is a joint award with Dr. C.Bain (Oxford).

2001

14. CASE studentship with Kodak to support Laura Martin - £15k

15. CASE studentship with Disperse Technologies to support Stuart Hicks - £20k. A joint project with Prof. T.Cosgrove at Bristol.

16. Glaxo - agreed a £4, 500 contract for research on novel surfactants.

17. British Council Alliance collaborative awards with Dr. Guittard University of Nice France - £8000

2002

18. EPSRC ACORN Nanotechnology grant *Polymerisable surfactants* - £100,000

19. Eli Lilly – contract research - £20,000.
20. Krüss Germany – new equipment £20,000
21. Univeristy of Kuwait – Nanostructured catalysts. I am a non-resident Co-Principal Investigator on a grant awarded to Dr. Ali Bumajdad; value $150,000. Although this is not direct income to the University of Bristol, I was instrumental in initiating the project, I helped Dr. Bumajdad write the proposal, and reply to referees comments. In 2004 he spent a 1-year sabbatical in my laboratory working on collaborative aspects of this project. Research paper 118, listed above, is the first publication to arise for this joint grant.

2003

22. Krüss Germany – new equipment £15,000
23. Japan Society for the Promotion of Science - £1,500.
24. Huntsman Surface Science – joint funded studentship - £33,000.
25. Syngenta - joint funded studentship - £39,000

2004

26. EPSRC Industrial CASE PhD studentship with Infineum - £54,000 + £33,000 top-up.
27. Omnova (US coating firm) - £6,000
28. Kodak joint funded studentship - £33,000 – commencing 2005.
29. EPSRC Responsive mode grant *Polymer induced interactions in self-assembled systems* – joint with Dr. Jeroen van Duijneveldt - £90,000.

2005

30. EPSRC *Oxidation of hydrocarbons in supercritical media* – joint with Prof Graham Hutchings Cardiff. £100,000 for Bristol and £100,000 for Cardiff.
31. Jointly-funded studentship with Kodak to fund Martin Hollamby - £33,000
32. Royal Society China fellowship to fund Dr. Aihua Zou - £25,000

Peer review facilities time
Beam time awarded has steadily risen from 16 days in 1998 to 34 days in 2003.

Facilities access is central to my research. I feel it is reasonable to include the value of this beam time, since competitive International peer-review committees award the grants, and these facilities are funded from the UK National Science Budget.

For ISIS experiments this beam time at has been valued using EPSRC “ticket” costs (a method employed from 1997-2001, during which the cost per day rose from £9.6k to £13k). For awards post 2001 the full commercial cost, charged to external companies, has been used (currently £15k).

For ILL experiments this beamtime at has been valued in terms of the equivalent commercial cost charged to external companies (currently £9k)

Based on these nominal values beam time awarded to me has steadily risen in value from £160k in 1998 to £460k in 2003.

33. EPSRC ISIS Neutron Facility Rutherford Appleton Laboratory. Around 200 peer reviewed beam days, with a value over £2.0 M, and £60,000 for consumables have been awarded.

34. Institut Max-von Laue - Paul Langevin, Grenoble, France. 45 beam days valued at approximately £450,000.

35. Synchrotron Radiation Source (SRS) Daresbury 4 beam days. Grants for consumables and travel approximately £3,000.

Overseas PhD students

In addition, PhD students supported by overseas governments have joined my research group.

1997
Kuwait Government - £62k - Mr.A.Bumajdad.

2002
Mexican government - £60k to support M. Sanchez-Dominguez – jointly supervised with Dr. P Wyatt.

Post-doctoral researchers

			destination
Dr. D.Sharpe	BBSRC	1994-1996	
Dr. D.Sharpe	EPSRC	1996-1997	Seagate
Dr. S.Stebbing	EPSRC	1997-1998	Crosfield
Dr. R.Wat	EPSRC	1999-2002	Pharametricals
Dr. G. Burnett	EPSRC	2003-	GlaxoSmithKline
Dr. A. Paul	EPSRC	2004-2005	Fellowship at Cardiff
Dr. S. Rogers	EPSRC	2005-2007	
Dr. A. Zou	Royal society	2006-2007	

(iv) Indications of external recognition

External presentations

1.	*Conference Presentation* - (*) Invited Speaker – American Chemical Society National Meeting Atlanta	Mar.	2006	
2.	*Research and teaching lectures* (4) – (*) *Department Seminar* – (*) Chemistry – Kuwait university	Nov	2005	
3.	*Department Seminar* – (*) Physical chemistry, University of Hull	Nov	2005	
4.	*Department Seminar* – (*) Physical chemistry, University of Oxford	Nov	2005	
5.	*Schools lecture* – (*) Royal Institution, London	Nov	2005	
6.	*Schools lecture* – (*) Rutherford Appleton Labs., Oxford	Nov	2005	
7.	*Schools lecture* – (*) University of Bristol		Nov	2005
8.	*Research and teaching lectures* (4) – (*) *Department Seminar* – (*) Chemistry – Wuhan University – China and 3 postgraduate seminars on Colloid science and presentation skills	Oct	2005	
9.	*Research and teaching lectures* (4) – (*) China Research Institute for Daily Chemical Industry (RIDCI) Taiyuan China	Oct	2005	
10.	*Research presentation* – (*) Syngenta, Bracknell	Oct	2005	
11.	*Research presentation* – (*) Huntsman, Birmingham	Oct	2005	
	Conference Presentation (*) Plenary Speaker 42nd meeting of the German colloid Society – Aachen	Sept.	2005	
12.	*Conference Presentation* (*) Invited Speaker European Colloid and Interface Science conference –Norway	Sept.	2005	
13.	*Conference Presentation* - (*) Invited Speaker – European Colloids and Interfaces Conference, Loughborough	July	2005	
14.	*Department Seminar* – (*) Chemistry – Keio University, Tokyo	June.	2005	
15.	*Research presentation* – (*) Sisheido Research Centre - Yokohama	June	2005	
16.	*Conference Presentation* - (*) Invited Speaker – American Chemical Society Colloids Meeting Potsdam NY	June.	2005	
17.	*Research presentation* – (*) ICI paints, Slough	April	2005	
18.	*Conference Presentation* - (*) Invited Speaker – American Chemical Society National Meeting San Diego	Mar.	2005	
19.	*Conference Presentation* - (*) Invited Speaker – Advances in non-aqueous colloids Royal Society of Chemistry London		Dec.	2004
20.	*Conference Presentation* - (*) Keynote Speaker - CNRS Nanoparticles conference Paris	Oct.	2004	
21.	*Conference Presentation* (*) Invited Speaker European Colloid and Interface Science conference – Spain	Sept.	2004	
22.	*Department Seminar* – (*) Chemistry – Wuhan University – China and 3 postgraduate seminars on Colloid science and presentation skills	July	2004	
23.	*Research and teaching lectures* (4) – (*) China Research Institute for Daily Chemical Industry (RIDCI) Taiyuan China	July	2004	
24.	*Conference Presentation* - (*) Invited Speaker - Structure, properties and applications of surfactants Royal Society of Chemistry London	May	2004	
25.	*Conference Presentation* - (*) Keynote Speaker - Nanoparticles 2004 Orlando	Mar.	2004	
26.	*Department Seminar* – (*) Chemistry – Wuhan University – China	Dec.	2003	
27.	*Department Seminar* – (*) Zhengzhou University of Light Industry China	Dec.	2003	
28.	*Research and teaching lectures* (4) – (*) Zhengzhou University of Light Industry China	Dec.	2003	
29.	*Department Seminar* – (*) Physics - University of Kyoto	Oct.	2003	
30.	*Research presentation* – (*) Sisheido Research Centre - Yokohama	Oct.	2003	
31.	*Department Seminar* – (*) Chemistry - Tokyo Metropolitan University	Oct.	2003	
32.	*Department Seminar* – (*) Chemistry - Tokyo Science University	Oct.	2003	
33.	*Department Seminar* – (*) Institute for Solid State Physics - Tokyo Univ.	Oct.	2003	

* denotes invited lecture, those not marked are contributed talks

34. *Conference Presentation* (*) – Keynote Speaker - European Colloid and Interface Science conference – Florence. Sept. 2003
35. *Conference Presentations* (2) – International Association of Colloid Scientists (IACIS) Brazil Sept. 2003
36. *Summer school* – Unilever Port Sunlight June 2003
37. *Conference Presentations* (2) - American Chemical Society Colloid group meeting two lectures – Georgia Tech. Atlanta June 2003
38. *Research presentation* – (*) Society for Chemical Industry, Founder's Symposium SCI headquarters, London April 2003
39. *Research presentation* – (*) Royal Society of Chemistry "Nanoparticle Systems" Royal Institution, London Mar. 2003
40. *Research and teaching lecture* - (*) Royal Institution, London Mar. 2003
41. *Department Seminar* – (*) Chemical Engineering, Loughborough University Feb. 2003
42. *Department Seminar* – (*) University Pisa, Italy Dec. 2002
43. *Conference Presentation* –(*) REFILL conference, Grenoble France Oct 2002
44. *Research and teaching lectures* (4) – (*) China Research Institute for Daily Chemical Industry (RIDCI) Taiyuan China Oct. 2002
45. *Research presentation* – (*) Syngenta, Jeallot's Hill UK Sept. 2002
46. *Conference Presentations* (2) – Surfactants in Solution – Barcelona June 2002
47. *Department Seminar* – (*) University of Sydney, Australia April 2002
48. *Conference Presentation* – (*) Self-assembly conference, Tuscany April 2002
49. *Conference Presentation* – (*) ACS Spring meeting Orlando April 2002
50. *Department Seminar* – (*) - Adelaide University, Australia Nov. 2001
51. *Research presentation* – (*) Disperse Technologies, Guildford Nov. 2001
52. *Department Seminar* - (*) Massachusetts Institute of Technology Department of Chemical Engineering April 2001
53. *Tele-conference seminar* - (*) University of North Carolina-Chapel Hill and North Carolina State University April 2001
54. *Conference Presentation* - (*) Keynote Speaker - American Chemical Society national meeting - San Diego April 2001
55. *Research Seminar* – (*) Eli Lilly - Indianapolis Indiana Mar. 2001
56. *Department Seminar* - (*) University College Cork, Ireland Mar. 2001
57. *Conference Presentation* - (*) Keynote Speaker - Nanoparticles 2001 Orlando Feb. 2001
58. *Conference Presentation* - (*) Workshop on Fluorinated Surfactants sponsored by the US Army Research Office, Avingon, France Jan. 2001
59. *Department Seminar* - (*) University of Hull Dec. 2000
60. *Conference Presentation* - (*) Workshop on Decontamination sponsored by the US Army Research Office Jackson Hole, Wyoming Oct. 2000
61. *Conference Presentation* – (*) Plenary Speaker – Fast Reactions in Solution Group Royal Society of Chemistry, University of Durham Sept. 2000
62. *Seminar* - research presentation to University of Bristol Convocation July 2000
63. *Conference Presentation* – (*) Keynote Speaker - Surfactants in Solution, University of Florida June 2000
64. *Conference Presentation* - (*) Keynote Speaker – COSMO2000, Amman, Jordan June 2000
65. *Conference Presentation* – (*) meeting of Recent Appointees in Polymer Science held at Unilever Port Sunlight, UK April 2000
66. *Conference Presentation* – (*) Royal Society of Chemistry meeting Adsorption to Interfaces Univ. Surrey April 2000
67. *Conference Presentation* – (*) Society for Chemical Industry symposium (Founder's Lecture) London April 2000
68. *Conference Presentation* – (*) Keynote Speaker - European Colloid and Interface Science conference – Dublin Ireland Sept. 1999
69. *Conference Presentations* (2) - American Chemical Society Colloid group meeting - Massachusetts Institute of Technology June 1999
70. *Conference Presentation* (*) "Infineum Industry-Academic Conference" - Oxford April 1999

71. *Conference Presentation* (*) "Scattering Techniques" - Society for Chemical Industry London — March 1999
72. *Royal Society of Chemistry Lecture* (*) - Cardiff University — Jan. 1999
73. *Conference Presentation* - Royal Society of Chemistry Colloid and Interface Science Group Meeting "Novel Surfactants" North East Wales Institute Wrexham — Sept. 1998
74. *Departmental Seminar* - (*) Imperial College, Chemistry, London — May 1998
75. *Departmental Seminar* - (*) Nottingham, Chemistry — March 1998
76. *Departmental Seminar* - (*) Bath, Chemistry — March 1998
77. *Departmental Seminar* - (*) University College London, Physics — Oct. 1997
78. *Scientific Highlight Lecture* - (*) 1997 Neutron Beam Users' Meeting Rutherford Appleton Laboratory — Sept. 1997
79. *Conference Presentation* - Royal Society of Chemistry Colloid and Interface Science Group Meeting "Polymers and Surfactants" North East Wales Institute Wrexham — Sept. 1997
80. *Conference Presentations* (2) - American Chemical Society Colloid group meeting University of Delaware Newark Delaware — July 1997
81. *Departmental Seminar* - (*) Oak Ridge National Laboratory - Tennessee — July 1997
82. *Group Seminar* - University of North Carolina Chapel Hill — June 1997
83. *Departmental Seminar* - (*) Rutherford Appleton Laboratory ISIS — June 1997
84. *Scientific Highlight Lecture* - (*) 1996 Neutron Beam Users' Meeting Rutherford Appleton Laboratory — Sept. 1996
85. *Conference Presentation* - 11th International Surfactants in Solution Jerusalem — June 1996
86. *Departmental Seminar* - (*) Southampton, Chemistry — March 1996
87. *Conference Presentation* - International Symposium on Micelles, Florida — Aug. 1995
88. *Evening Lecture* - (*) Society for Chemical Industry at London HQ — Dec. 1994
89. *Conference Presentation* - (*) "New Physico-Chemical Techniques in Food Science" Leeds University — Sept. 1994
90. *Departmental Seminar* - (*) Max-Planck Institute for Colloid and Surface Science - Berlin — July 1994
91. *Departmental Seminar* - (*) University of Cologne - Chemistry — July 1994
92. *Departmental Seminar* - University of Bristol - Chemistry — Dec. 1993
93. *Conference Presentation* - Royal Society of Chemistry Colloid and Interface Science Group Meeting "Pure and Applied Aspects of Surfactant Behaviour", Strasbourg — April 1993
94. *Departmental Seminar* - (*) Rutherford Appleton Laboratory ISIS — 1992
95. *Conference Presentation* - 8th International Surfactants in Solution, Florida — June 1990
96. *Conference Presentation* - NATO Advanced Study Institute on Colloidal Systems, Aberystwyth — Sept. 1989
97. *Conference Presentation* - Reversed Micelles Workshop, Wageningen Netherlands — March 1989
98. *Departmental Seminar* - (*) Ramkahmhaeng University, Bangkok, Thailand — Jan. 1989

In addition, my PhD students and Post-Docs have regularly made oral contributions at International conferences, including recently International Association of Colloid Scientists (IACIS) Brazil Sept. 2003 and Bristol 2000; Surfactants in Solution, University of Florida June 2000; American Chemical Society Colloid group meeting - Massachusetts Institute of Technology June 1999. I require that all of my students attending research conferences present at least a poster: over 45 such presentations have been made.

I have been invited to chair sessions at International conferences, recently ACS National and Group meetings (Georgia 2003, San Diego 2002, Delaware 1997), European Colloid and Interface Scientists meetings (Florence 2003), a CNRS conference (Paris 2004) and the XVIIth European Chemistry at Interfaces Conference in 2005.

Ph.D examinations

	External			
	P. Taylor	Hull	June	2005
	K.Wilkinson	Oxford	Nov.	2004
	M.Porter	Hull	May.	2004
	M.Wright	UEA Norwich	May	2004
	M.Wan	Melbourne Australia	April	2004
	A.Cheung	Cardiff	Oct.	2003
	A.Jackson	Oxford	Sep.	2003
	K.Flook	Durham	Mar	2003
	R.Atkin	Univ. Newcastle, Australia	Sept	2002
	J-P Curtois	Univ. Surrey	July	2002
	H.Gazzaz	UEA Norwich	June	2001
	N.Warren	Oxford	July	1999
	A.Hussain	Imperial College	June	1997
	R.Thompson	Hull	April	1997
	M.Johal	Cambridge	Jan.	1997
	B.J.Khoo	Imperial College	May	1996
Internal	E. Stattersfield	July	2005	
	W. Tawepreedra		July	2005
	Y.Hennequin		July	2004
	G Pastor Moreno		Sept	2002
	A.Parker		Nov.	2001
	J.Joseph		Nov.	2001
	E.Kaneva		Oct.	2001
	M.Lei		Jan.	2001
	N.Jenkins		Nov.	2000
	M.Chadwick		March	1999
	S. Calpin-Davies		Nov.	1998
	A.Loxley		June	1998
	D.Teare		Dec.	1997
	S.Froggatt		Nov.	1997
	I.M.Hedgecock		July	1994
	M.Ito			1994
	M.J.Lloyd		March	1994

Conference organisation

1. I organised a workshop on *Colloid Synthesis and Characterisation* in Bristol (1998) for CERC3 (Chairmen of European Research Councils' Chemistry Committees). This involved participation of 30 young scientists from throughout Europe, who were sponsored by their respective Governments.

2. In September 1999 I was asked by EPSRC to organise and chair the Large Scale Structures session of the annual meeting of UK Neutron Users, which was held in the University of Durham. This involved arranging scientific talks, discussing the current state of the facilities with the user community, and making an oral report, summarising the meeting, to the entire conference.

3. I was on the local organising committee, responsible for the scientific programme, for the International Association of Colloid and Interface Scientists meeting in Bristol in July 2000. The meeting attracted around 700 delegates.

4. I organised the Society for Chemical Industry's 2000 Founder's Lecture Mini-symposium at Imperial College London April 2000.

5. I was on the scientific organising committee for an international conference *Self-assembly: the future* held in Tuscany, Italy April 2002. This involved fund-raising (Army Research Office – USA, EU and ACS), and arranging the scientific programme consisting of talks for 60 or so international scientists. The other organisers were all Professors; B.H. Robinson (UEA, Norwich), T.A.Hatton (MIT, Cambridge MA), and P.Baglioni (Florence, Italy). A book of the proceedings from this conference is to be published in late 2003.

6. I was on the local organising committee for the XVIIth European Chemistry at Interfaces Conference at Loughborough, with responsibilities of publicising the meeting and organisation of the scientific programme.

External evaluations editorial boards and international committees

.

7. From Jan 2006 I have been appointed a co-editor on Journal of Colloid and Interface Science. This involves handling about 200 manuscripts per year through the Elsevier web-based submission site. Members of my research group are involved (voluntarily and for remuneration) in this activity.

8. I have been appointed external examiner in Physical Chemistry at the University of Hull UK from Oct. 2005. This is a 3-year post, and involves pre-screening examination questions, evaluating standards of examination marking by faculty and giving *viva voce* examinations to appropriate students at the end of the process to decide on final degree categories.

9. In July 2005 I was commissioned by CCLRC, with two other Professors (Helliwelll, Manchester and McEwan, UCL) to prepare a report on "The potential of neutron scattering to enhance research training in the UK". This will be completed by the end of September 2005, and contribute towards a £10 billon bid for a new generation neutron scattering centre in UK, to be assessed by the UK Minister for Science and Innovation Lord Sainsbury.

10. In 2000 was invited by the Irish Government agency Enterprise Ireland to assess the first four year phase of the Irish Centre for Colloids and Biomaterials. This work involved visiting the two main research centres, in Dublin and Belfast, and preparing a detailed report (~ 30 pages) evaluating the work of the groups. Recommendations for future funding were made on the basis of this report.

11. Between Jan 1998 and Jan 2001 I was on an International scientific panel for deciding on beam-time applications to the Institut Max-von-Laue Paul-Langevin neutron facility in Grenoble, France. This drew on my expertise in both colloid science and neutron scattering. There were two meetings a year in Grenoble, and the committee dealt with around 100 proposals a time.

12. Invited member of the "Large-scale structures" neutron beamtime proposal selection committee at ISIS, Rutherford Appleton Laboratory UK. (June 2002 – June 2004). This involves similar workload as described in the section above.

13. Elected member of Langmuir editorial board since Jan. 1997. *Langmuir* is the American Chemical Society journal for Colloids and Surfaces, and based on the citations index it is now the premier Physical Chemistry journal. This involves refereeing important and controversial contributions, as well as arbitrating in contested cases. I have been invited to perform this duty for a forth successive three-year term.

14. From 2003-2005 I served on the editorial board, as the local UK co-ordinator, for the international journal *Colloid and Polymer Science*.

15. Elected member of EPSRC peer review college from Jan. 1997-2002, and from 2005. This involves refereeing research grants, final reports and applications for Advanced Fellowships etc. I am also a referee for American Oil Chemists' Society, Medical Research Council, Enterprise Ireland, Research Council of Norway and Leverhulme Trust grant applications.

16. Non-visiting External Examiner in the Department of Chemistry, University of Malta. June 1997.

17. I have refereed over 400 academic papers to date, mainly for *Science, Journal of the American Chemical Society, Langmuir, Journal of Physical Chemistry, Colloids & Surfaces* and *Royal Society of Chemistry* publications.

Visiting professorships and fellowships

18. I have been appointed Visiting Professor at Kuwait University from November 2005. This involves delivery of advanced courses and examinations in colloid science, and reporting to Kuwait University Science Faculty on the Department of chemistry there.

19. In Oct 2002 I was made Visiting Professor in surfactant science at the China Research Institute for Daily Chemical Industry (RIDCI) Taiyuan China, and at the University of Wuhan China in Dec 2003. These are two recognised centres of excellence for Colloid Science in China.

    There I gave a course on surfactant science, and a book of my lecture notes, which have been translated into Chinese, is being published in China. The book will appear in a unique "mirror image" format, with a page of Chinese text on the left hand side, which maps on directly to the right hand page in English. The aim of the book is to broaden the appeal of colloid and surface science in China, and it is hoped that the English-Chinese page format will help attract students to the area, by enhancing both scientific understanding and also communication.

20. I was Visiting Professor in surfactant science at the ZhengZhou Institute for Chemistry, China in Dec 2003.

21. In Dec 2002 I was awarded a visiting fellowship from the Japan Society for the Promotion of Science to visit Dr. Seto (Kyoto) and Prof. Okabayashi (Nagoya). The fellowship was held in October 2003.

Contributions to neutron scattering

22. The point above, concerning the preparation of a report to a UK government Minister is relevant here.

23. In 2003 was tasked with “championing” bids for new instrumentation at the Target Station II project for the ISIS facility Rutherford Appleton Laboratories. This is a £100M programme (announced spring 2003) to provide optimised neutron beams, which can be employed in colloid and interface science. My role, in collaboration with one other co-coordinator, involved technical evaluation and selection from a number of instrument bids, as well as generating support for these proposals from the wider neutron and colloids scientific community. The summary findings were presented to an external Science Advisory Committee (SAC) in June 2003: this SAC then recommended a “day one” instrument suite to the Project Board. The small-angle neutron scattering instrument SANS2b, one for which I was champion, was identified by SAC as one for four top priority instruments from the possible list of eleven different bids. The nominal value of this SANS2b equipment is £2M representing a significant investment for the future of a technique central to my research activities.

24. Data from the quinennial review (end date 2002) of the ISIS neutron source at the Rutherford Appleton Laboratories show that my group has generated the largest number of publications based on results from the LOQ station (small-angle neutron scattering): 45 publications out of the total instrument total of 318 representing 14% of the total publications. On average my group produces one publication every 1.2 days of beam time: the instrument average is 3.6 days per publication. The entire publication output from ISIS in this period was some 4000 papers, hence these 45 publications represent over 1% of the institute total.

25. I have served on two important neutron beamtime allocation panels, as detailed in the above section ***External evaluations editorial boards and international committees.***

Overseas visitors

J.Dong	P.R. China	1995-1996
T.K.Sen	India	1998
S.Yamamoto	Nagoya Univ. Japan	1998
Z.Du	P.R. China	1999-2000
Dr. E-O.Alami	Chalmers Univ. Sweden	1999-2000
K.Debbadi	Univ. Nice France	2002
C.Jansyk	Univ. Nice France	2003
Dr. A.Bumajdad	Kuwait University	2003-2004
R.Grilli	Perugia University	2004
A-C. Donnewirth	Lyon University	2005
Dr. A. Zou	South Eastern University China	2006-2007

8. Administration and management

(i) Contributions to faculty/departmental/academic groups in the university and external committees and working groups

M.Sc. in Colloid Science 1993-1997

I was responsible for administration, pastoral care, examinations, mark-sheets, time-tabling and admissions for the M.Sc. in the period 1993-1997. Amongst my successes during this period was the recruitment of two overseas applicants. Both of them chose to stay in Bristol for their Ph.D. research, and this represents around £80,000 in tuition fees for the University. Until the course closed in 1999 I assisted the new tutor, Dr. van Duijneveldt, in an advisory role.

Current Chemistry Committees	Teaching, Admissions.
Past Chemistry Committees	Staff-student liaison (1993-1995), House (1995-2002)
Chemistry Working parties	Good Teaching Practice (chair) 1998-99 Unification of 1st year teaching labs. 1999-2000 Maths provision in Chemistry 2001.

Open day lecture

As part of my work on Chemistry Admission committee from 1999-2002 I was responsible for delivering a general interest chemistry lecture on University Preview Day. This important duty was to demonstrate to prospective students, and accompanying parents, a high quality of teaching and communication. The lecture is on *Films, Foams and Swarming Molecules*. The format is a Powerpoint-based presentation, supplemented by plenty of live displays, which include a Boy-in-a-bubble trick and a full-screen projection of nematic liquid crystals viewed through a polarising light microscope.

Mentor

At his request I took on the role of 'Teaching Mentor' for a new staff member Dr. van Duijneveldt Sept. 1997.

Interview Panel

In Dec. 1999 I was a member of an interview panel charged with appointing a Reader in Physical Chemistry.

Director of International Affairs

From October 2005 I have been appointed Director of International Affairs in the School of Chemistry. This role is to promote the International Profile, by raising awareness of research and training excellence of the School of Chemistry. Goals are to increase the quality and number of overseas students signing up for post-graduate and undergraduate degree programmes, and to capitalize on opportunities for international grant income and research output.

(ii) Professional activities outside the University

External	Society for Chemical Industry - Bristol section committee 1993-1997. *Colloid and Surface Chemistry* national group committee from summer 1998 to present.

There are numerous important external administrative and management tasks I am/have been responsible for. These activities are essentially research-oriented, and demonstrate that my expertise is widely sought by external bodies. These are covered under section **7 Research (iv) Indications of external recognition**, and include :

a. Editorial duties
b. Co-ordination of a large national proposal on neutron scattering facilities
c. External examining and evaluation duties
d. International conference organisation
e. International review panel and journal editorial board memberships,
f. International neutron beam time allocation panel memberships
g. External PhD and International postgraduate examinations
h. Refereeing for journals and research councils.

(iii) Community and widening participation activities

1. In Nov 2005 I delivered a schools lecture in the Faraday Lecture theatre at the Royal Institution in London. The aim of the lecture is to inspire younger scientists to choose a career as a research chemist.
2. "The secret chemistry of the mobile phone" is a 1-hour presentation, appropriate for 6th-form audiences, written with and given jointly with Dr. Jason riley (School of Chemistry). My contribution centres on the chemistry of the liquid crystal displays, Dr. Riley's section is about the batteries. The lecture involves interactive demonstrations, which are passed out to the audience during the lecture. The presentation was first given in March 2004, and will be rolled out to local schools and colleges in the coming years. In 2005 we gave this lecture at the Rutherford Appleton Laboratories (twice in November).
3. Starting in 1995 my research group has regularly contributed a 'live' display to the Science to the People exhibitions held in the Bristol Galleries shopping centre (SET95, SET96, SET98 and SET 2000, SET 2002). In the 2002 exercise my research group, demonstrating "mega bubble" blowing, appeared in a photo feature in the local Bristol Evening News paper.
4. During Science Week in 2003 I lectured on "Chemistry in Action" to 300 sixth form students in the Faraday Theatre at the Royal Institution. This presentation was in the broad area of Nanotechnology, and of course, included numerous demonstrations that were designed so audience members could participate.
5. During National Chemistry Week, in Nov. 2001 I gave a presentation on issues in modern Chemistry to 1000 pupils at Bristol Grammar School during morning assembly.
6. I have lectured to Bristol science pupils on open days in the School of Chemistry under the "Young and Gifted Scheme" in 2002 and 2003. The subject was chosen to be (hopefully) relevant and have interest to teenagers: the chemistry of liquid crystal displays used in mobile phones.
7. I have made "science day" presentations at a local Bristol School (Ashley Down Infants/Juniors).

Appendix

The 1999- 2000 Clifford Wharton Prize – Citation

Julian Eastoe is this year's winner of the Clifford Wharton prize for excellence in teaching in the School of Chemistry. This prestigious prize is awarded mainly on the basis of student feedback, especially through the questionnaires. This year Julian has given four Honours lecture courses, one Chemistry 1S course plus two MSc taught courses in Colloid Science, all given with typical enthusiasm and thoroughness. He has given the same commitment to his Chemistry 1A tutorials, workshops and laboratory sessions. He has achieved outstanding questionnaire results this year, building on previous excellence.

His enthusiasm for his subject is made abundantly clear in all his teaching activities; he is forever producing new ideas, changing his approach and teaching material accordingly. He expects the same commitment from the students. He is a great populariser of chemistry. He is to be seen at the forefront on preview days with a general interest lecture, or blowing soap bubbles in the quadrangle; or he can be seen up to his armpits in colloidal slime at public displays in the Galleries (Shopping Mall).

Julian is an enthusiastic member of the Teaching Committee and of the Teaching Advisory Board. Recently he and several colleagues produced a valuable Guideline for Good Teaching Practice in the School of Chemistry. The aim of this ongoing document is to set and improve teaching standards within the School. Julian has proved to be a good mentor to some of his less experienced colleagues.

Julian's nomination for the award has been heartily endorsed by the students on the Staff/Student Liaison Committee.

Many congratulations to Julian: the award and cheque for £500 will be presented at the beginning of the new teaching year in October.

Selby A.R. Knox
Alfred Capper Pass Professor of Chemistry
Head of Department
School of Chemistry, University of Bristol, Bristol BS8 1TS, UK
phone: (+44) (0)117 928 8158
fax: (+44) (0)117 929 0376