# The Impact and Future of Scattering Techniques in Soft Matter

A symposium in honour of **Prof. Jeffrey Penfold** 2013 Rideal Award winner

Keble College Oxford 18 - 19th March 2013

#### Invited Speakers:

T Arnold, D Barlow, R Dalgliesh, R Felici, G Fragneto, I Grillo, J Lakey, J Penfold, J Petkov, J Lu, L Porcar, A Rennie, R K Thomas, I Tucker, A Zarbakhsh, T Zemb.



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Registration : http://www.rsc.org/ConferencesAndEvents/conference/alldetails.cfm?evid=111563

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## **Schedule of fees**

Delegate rate				£265
Discounted delegate rate*	(RSC,	IOP,	SCI)	£230
Invited speaker rate				£200
Student rate				£125

\* RSC members use your membership for a discounted rate.

\* SCI and IOP members please use the following codes: SCI members PROMOSCI IOP members PROMOIOP

This fee includes the conference dinner on the 18<sup>th</sup>. Registration after 31/12/12 will incur a surcharge of £50 (£25 students).

### **Location & Accommodation**

Keble College Oxford is host to this 2 day scattering conference, and has excellent facilities offering opportunity for presenters, delegates students and exhibitors to interact in a pleasant, well catered environment. Keble is close to Oxford city centre, and has great links to both rail services and London airports.

Rooms are available on a first come first served basis. To make a reservation please visit the college accommodation reservation website http://www.keble.ox.ac.uk/conferences/conference-accommodation and use the code R1D34L.

#### **Abstract Submission**

We welcome offers of presentations and posters. To submit an abstract for the meeting please email to **ian.tucker@unilever.com**, indicating preference for an oral presentation, a poster or both. There will be a prize for the best Student poster. (*Deadline for abstracts 11 Jan 2013*)

#### **Exhibitors**

Persons wishing to exhibit at this event are invited to contact Dr Claire Pizzey, Claire.Pizzey@diamond.ac.uk to make arrangements.

Organising committee: Dr Claire Pizzey (Diamond), Prof Jian Lu (Manchester), Dr John Webster(STFC), Prof Jordan Petkov & Dr Ian Tucker (Unilever)



## **Jeff Penfold**

Jeff Penfold has pioneered the use of scattering techniques particular SANS and Neutron reflectivity for the study of soft condensed matter in solution, surfactants and polymers adsorbed at interfaces and surfactants under shear. With John Hayter he developed the mean spherical approximation for analysis of small charge interacting micelles in solution, a method which is the mainstream for analysis of such materials today.

In partnership with Bob Thomas, he pioneered the application of neutron reflectivity for the study of surfactant adsorption at interfaces, a technique which has now become an essential tool for the physical chemist concerned with surfactant adsorption at interfaces. With over 400 publications in international peer reviewed journals his contribution is significant. He was awarded the Walter Hälg medal in 2007 for services to neutron scattering and is the 2013 Rideal award winner in recognition of his contribution to the areas of soft condensed matter and Physical Chemistry. Jeff joined the Harwell facility and then went to study Physics at Brunel University. In 1981 he received his PhD for a thesis entitled "New applications of neutron scattering to problems in surface chemistry". In 1971 he was appointed Scientific Officer in the Neutron Beam Research Unit at the Rutherford Laboratory. From 1977 to 1979 he was seconded to the Institut Laue-Langevin, Grenoble. From 1980 to 2003 he was Group Leader for Large Scale Structures at ISIS, Rutherford Appleton Laboratory, and is a former Group Leader for non-crystalline diffraction at the same institution. In 2001 he was appointed as Project Scientist for the successful target station 2 project at ISIS. He is currently a senior IM scientist at the ISIS facility. In 2000 he was appointed Visiting Professor at University of Bristol, and since 2002 he has been Visiting Professor in Physical and Theoretical Chemistry at the University of Oxford.

#### **Rideal Award**

**Sir Eric Rideal** (1890-1974) was an English physical chemist who pioneered many frontiers in catalysis, colloid science and physical chemistry, who in 1950 founded the Colloid and Interface science group. The Rideal award is made annually in his honour to a person who has made a substantial contribution to the area of colloid science.