



Structural analysis by  
neutron reflection

# Rideal Lecture: Studying Bulk and Interfacial Properties via Neutrons

Friday 15 April 2011

SCI HQ, London, UK

**RSC** | Advancing the  
Chemical Sciences

Organised by SCI's Colloid & Surface Chemistry Group  
and the RSC's Colloid & Interface Science Group

  
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where science meets business

- 09:30** Registration and refreshments
- 10:00** Welcome and introduction
- 10:15** **Spontaneous formation of multilayer structures at interfaces from surfactant self-assembly**  
Jeff Penfold, Oxford University & ISIS, UK
- 10:45** **Biosurfactants and biointerfaces**  
Jian Lu, Manchester University, UK
- 11:15** **Adsorption kinetics in interacting systems: synergies and surprises**  
Colin Bain, Durham University, UK
- 11:45** **On the biomolecular interaction with bilayer and non-lamellar biomembranes**  
Tommy Nylander, Lund University, Sweden
- 12:15** Lunch, poster session and Colloid Group AGM
- 13:45** **Connecting nano-structure to the stability of high-internal phase emulsion explosives**  
John White, ANU Canberra, Australia
- 14:15** **The friction between polyelectrolyte brushes**  
Dominic Tildesley, Unilever, UK
- 14:45** **Unconventional bonding in physisorbed monolayers**  
Stuart Clark, Cambridge University, UK
- 15:15** **Order, structure and fluctuations in interfacial layers - studies of concentrated surfactants**  
Adrian Rennie, Uppsala University, Sweden
- 15:45** Refreshments and poster session
- 16:30** **What neutron reflectometry has taught us about surfactants at interfaces**  
Bob Thomas, Oxford University, UK
- 17:30** Wine reception



The Rideal lecture is an annual award given by SCI's Colloid and Surface Chemistry Group and the RSC's Colloid and Interface Science Group.

Colloid science principles have been successfully applied in a wide range of industries involving manufacture, processing and formulating many materials as aqueous dispersions.

This symposium aims to bring together a group of colloid scientists all of whom have played leading roles in understanding the nature and properties of fluid-fluid interfaces and such formed between aqueous solutions and both hydrophilic and hydrophobic materials of all kinds by using neutrons.

## Attendees

This conference is aimed at anyone interested in colloid science as well as rheologists and formulators, scientists in the agriculture, food, coatings, pharmaceutical and cosmetics industries will also find this conference very informative.

## Posters

A poster session is planned for this event. Since numbers are limited, interested delegates are strongly encouraged to submit their application as early as possible. Please send a one-page abstract to [conferences@soci.org](mailto:conferences@soci.org) by **Friday 25 February 2011**.

## Bursaries

SCI and RSC are pleased to offer complimentary registration to SCI and RSC member students. To apply for a student bursary, please tick the appropriate box on the registration form overleaf. Bursaries will be allocated on a first come, first served basis.

## Organisers

Jordan Petkov, Unilever R&D Port Sunlight  
Jian Lu, Manchester University

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15 April 2011 @ SCI HQ, London UK

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