

'Industrial and interdisciplinary applications of suspensions'

Graham Lecture and Symposium 2019

SCI, Belgrave Square, London, UK

Tuesday 9th July 2019

Organised by SCI's [Colloid & Surface Chemistry Group](#) and RSC's [Colloid & Interface Science Group](#)

The meeting will be of interest to both industrial and academic researchers, particularly those from colloid chemistry, soft matter physics and chemical engineering backgrounds working with suspensions. It will showcase recent advances in suspension science, with a particular emphasis on proven and potential applications to industry and other disciplines such as geology. The programme will conclude with the 2019 Graham Lecture by Professor Wilson Poon (Edinburgh University), who, together with a set of outstanding industrial and academic speakers, will address real-world applications based on excellent science.

The Graham Lecture is awarded, biennially, to a scientist in the UK who in the prime of their research career who has established an international reputation in colloid science by their distinguished contributions to the field.

In addition to hearing great presentations and the opportunity to contribute a poster, there is plenty scope for networking to catch up with old friends and make new ones.

Programme

- 09.30 Registration
- 10.10 Introduction and welcome
- 10.15 **Rheology of protein-stabilised emulsions and gels modelled as mixtures of soft colloidal particles**
William (Bill) Frith (Unilever, Colworth Laboratory, UK)
- 10.50 **Getting and Keeping in Good Shape: Triborheology of Die-Paste Interaction**
John Wight (Corning Inc., Corning, USA)
- 11.25 Refreshments and exhibition
- 12.00 **Commercially important aspects of drying dynamics in waterborne coatings**
Martin Murray, AkzoNobel,
- 12.35 Flash poster presentations
- 13.00 Lunch, exhibition and posters
- 14.15 **Magma mush and porridge problem: suspensions and volcanoes**
Alison Rust (geology, Bristol, UK)
- 14.50 **The physics of smarter and more sustainable cement**
Emanuela del Gado (Georgetown University, USA)
- 15.25 **Fresh concrete rheology: an input from soft matter**
Guillaume Ovarlez (Solvay-CNRS Laboratoire du Futur, Pessac, France)
- 16.00 Refreshments and exhibition
- 16.35 **Why do rheology? - relating rheometric data to real-life suspension flows**
Professor Wilson Poon, University of Edinburgh, *Graham Lecturer, 2019*
- 17.25 Informal networking / wine reception

Posters

Opportunities are available for a limited number of posters. Interested applicants should send an abstract of one A4 page or 300 words maximum, indicating title and authors, to conferences@soci.org by **9th June 2019** with the subject line "Graham Lecture - poster submission". Poster contributions from Early Career Colloid Scientists are particularly encouraged.

Exhibition and Sponsorship

An exhibition will take place alongside the conference during refreshment breaks for companies and related organisations who may wish to exhibit. For further information and prices, please email conferences@soci.org.

The SCI Conference Team may be contacted via

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Professor W C K Poon, FRSE, FInstP



Professor Wilson Poon is Chair of Natural Philosophy at Edinburgh University and leads experimental research in Soft Matter and Biological Physics, while working closely with colleagues in computer simulation and theory. He has authored 201 documents that have been cited more than 11000 times; he is also co-inventor on two patent applications: his body of work is of the outstanding quality by international standards.

Recognising the importance of colloidal interactions to industrial systems, Prof. Poon established the Edinburgh Complex Fluids Partnership in 2012 which has since worked with over 30 companies across a wide range of sectors, including ceramics, foods, paints and biomedical products, to help them identify ways to improve their processes and formulations. Drawing on his understanding of model systems, the National Formulation Centre recently commissioned him to contribute to the development of a national facility for understanding the scale-up of formulations. He is a partner on the EPSRC Future Formulations project 'Predictive formulation of high-solid-content complex dispersions'. Demonstrating his international influence, IFPRI funded him to explore the role of hydrodynamics on colloid-polymer systems.