

The Peter Timms Lecture and Symposium

School of Chemistry
LT2

Wednesday 13th September 2023

Previous Lecturers

Professor Geoff Cloke FRS	2013
Professor Craig Hawker FRS	2014
Professor Bert Meijer	2015
Professor Karen L. Wooley	2016
Professor Xi Zhang	2017
Professor Takuzo Aida	2018
Professor Ian Manners FRS	2019
Professor Joanna Aizenburg	2022

Welcome to the Peter Timms Lecture and Symposium 2023

Peter Timms (1937-2005) graduated from Oxford University in 1959 and then worked for Borax Consolidated where he developed an interest in high temperature chemistry. This theme shaped his DPhil research at Oxford (with CSG Phillips), his postdoctoral research at Rice University (with JL Margrave), and his research as Assistant Professor at Berkeley.

He returned from the USA as a Ramsay Fellow at Bristol, later becoming Lecturer and Reader in Inorganic Chemistry. He was awarded a Corday–Morgan Medal for work on synthetic reactions of boron, silicon and transition-metal high-temperature species. He formally retired in 2002 but continued to work with Edwards on chemistry relevant to the electronics industry, on silica films and on the destruction of toxic waste gases. The Peter Timms Symposium

is held in recognition of his pioneering work in inorganic and materials chemistry and his many contributions to the School of Chemistry.



Professor Fiona Meldrum is a Professor at the School of Chemistry, University of Leeds, UK. She obtained her undergraduate degree in Natural Sciences from the University of Cambridge in 1989, and her doctorate in biological crystallisation from the University of Bath in 1992. Following a postdoctoral position at the University of Syracuse, USA she carried out further postdoctoral work at the Max Plank Institute of Polymerforschung, Mainz, Germany under award of a Humboldt Research Fellowship.

Fiona then joined the Australian National University in Canberra as a Research Fellow, before returning to the UK to take up a lectureship at Queen Mary, University of London in 1998. She moved to the School of Chemistry, University of Bristol in 2003 and joined the University of Leeds in 2009. Fiona holds a Chair in Inorganic Chemistry, and has been the recipient of a number of awards including an EPSRC Leadership Fellowship, an RSC Interdisciplinary prize and an ERC Advanced Grant.

Her research focuses on crystallisation, which due to the aesthetic appeal of crystals, the fundamental nature of phase transformations and the enormous utility of crystalline materials, has fascinated for centuries. The over-arching goal of Fiona's research is to achieve control over crystal nucleation and growth, such that crystalline materials – with tailor-made properties – can be constructed by design. This vision is founded on building new understanding of the mechanisms which underlie crystallisation, and is often inspired by biomineralisation processes in which organisms achieve control unparalleled by synthetic systems.



SCHOOL OF CHEMISTRY

PROGRAMME

12:30 - 1:30pm

Poster session

East Foyer
with Lunch

1:30 - 1:35pm

Chair: Professor Charl FJ Faul

University of Bristol

Introductory Comments

1:35 - 2:20pm

Keynote Lecture

Professor Radha Boya

University of Manchester

*Ionic flows and molecular transport
under angstrom-scale confinement*

2:20 - 2:50pm

Chair: Dr Avinash Patil

Dr Jemma Rowlandson

University of Bristol

*Saving the World with Leerdammer
Cheese: Nanoporous Materials and the
Hydrogen Economy*

2:50 - 3:10pm

Dr Rafael Moreno Tortolero

University of Bristol

Silk Road Revealed, where is it leading?

3:10 - 3:30pm

Tea and coffee break with posters

East Foyer

3:30 - 4:30pm

Chair: Professor Steve Mann FRS

Introductory Comments

The Peter Timms Lecture

Professor Fiona Meldrum

University of Leeds

Boxed in: Crystallisation in Confinement

4:30 - 4:45pm

Professor Charl FJ Faul and Mrs Liz Timms

Closing Remarks

4:45 - 6:00pm

Wine Reception in the East Foyer

with Posters