

# Warwick Chemistry Departmental Seminar

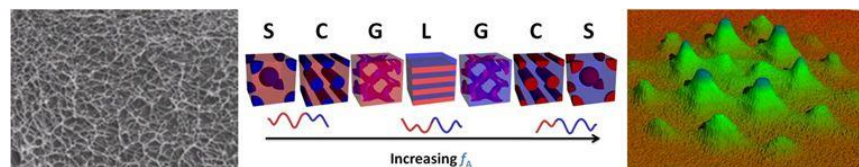


**Professor Paul Topham, Aston University**

30 November 2017, 4.00 pm, Physics Lecture Theatre, Science Concourse

## X-ray scattering in polymer science

The talk will describe the use of Conventional and Controlled polymerisation techniques combined with synthetic organic chemistry to fabricate novel (co)polymers, which display varying phenomena, depending on the material itself and the environment in which it is placed. The talk will focus on characterisation techniques of their nanoscale behaviour involving x-ray scattering and neutron reflectivity amongst more traditional methods. Applications will include include organic solar cells, rubber technology, electrospinning, microphase separation, click chemistry, tissue engineering, cell therapy, drug delivery, polymer fibres and water purification.



Professor Topham joined the Chemical Engineering and Applied Chemistry subject group at Aston in August 2008 as a Lecturer in Chemistry, became a Senior Lecturer in August 2012, a Reader in Polymer Chemistry in August 2013 and a Professor in August 2017. He is the Director of the Aston Institute of Materials Research (AIMR), Guest Professor at the South China University of Technology (SCUT), Guangzhou, P.R. China, Secretary of the IUPAC Subcommittee on Polymer Terminology (SPT), Chartered Chemist (CCChem) and a Fellow of the Royal Society of Chemistry (FRSC). Following the completion of a PhD in 2006 with Professor Anthony J Ryan OBE, he undertook a post-doctoral research position working for Unilever, under the supervision of Professor Steve Armes.