

Biography

Derek Irvine is Professor of Materials Chemistry at the University of Nottingham in the Department of Chemical and Environmental Engineering. He is a member of the Centre for Additive Manufacture (CFAM) Research Group at Nottingham, one of the largest group researching into Additive Manufacturing techniques in Europe. Derek research interests centre on the synthesis & scale up novel architectural polymers (e.g. star, graft, hyper-branched polymers) and design/use of high performance surface active polymers for applications such as coatings, dispersants, surfactants. A key theme is the delivery of novel high-performance materials by overcoming the current barriers to commercial manufacture of such controlled polymer structures *via* the application of microwave heating, alternative solvent systems (ionic liquids, expanded phase and fluoruous phases) and additive manufacturing techniques. He has published >140 refereed journal papers and is an inventor on 32 patents/patent applications. He is a Fellow of the Institute of Chemical Engineers (IChemE) and is also a Chartered Scientist (CSci) and Chartered Engineer (CEng). Derek has been at the University of Nottingham for 15 years, prior to which he had a 16-year career in industry (Imperial Chemical Industries Ltd) as an industrial research leader, which generated 11 commercialised products and gained 3 Innovation Awards.

