

**International Graduate Research Training Group I524
– SSNI –
Self-Assembled Soft-Matter Nanostructures at Interfaces**



Tuesday, November 21st, 2017, 12.00h

**Technische Universität Berlin
TC-Building, Room TC 014
Strasse des 17. Juni 124, 10623 Berlin**

Prof. Steven Armes
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„In situ SAXS studies during polymerisation-induced self-assembly (PISA)“

Polymerisation-induced self-assembly (PISA) offers a powerful route to many types of block copolymer nano-objects, including spheres, worms and vesicles. Moreover, PISA design rules are generic: such syntheses can be conducted in polar solvents such as water or ethanol or non-polar solvents such as mineral oil. In principle, in situ SAXS is a powerful technique for monitoring the evolution in copolymer morphology that occurs during PISA syntheses. This is exemplified by the synthesis of block copolymer spheres and vesicles in mineral oil, as reported by M. J. Derry et al. (Chemical Science, 2016, 7, 5078). Preliminary unpublished data obtained during the RAFT aqueous emulsion polymerisation of glycidyl methacrylate using a stirred reaction vessel will also be shown.

We cordially invite everybody who is interested.

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