

**Simulating lipid bilayers at large length scales: patchy vesicles,
cylindrical micelles and coated viruses**

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This talk will present a new approach to modelling surfactant systems that allows large length and time scales to be obtained yet retains sufficient molecular detail to explore the complete range of surfactant behaviours. The model will be presented in the context of biologically motivated work such as the budding of vesicles, wrapping of viruses and the sorting of lipids based on shape.