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RESEARCH COLLOQUIUM SERIES

Dr. Philip Jessop

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Friday

Feb. 1, 2013

3:30 - 4:30

LECTURE THEATRE

7-158

CO₂-TRIGGERED SWITCHABLE SOLVENTS AND SURFACTANTS

For many practical applications of solvents and surfactants, the ability to “switch” the material’s properties during a process would be exceedingly useful. Imagine, for example, a solvent that is capable of dissolving a desired product during an extraction, and then afterwards can be “switched off” so that it is no longer capable of dissolving the product. The product would then precipitate and be easily collected, without any need for distillation. The author invented the first switchable solvents in 2004 and has been working with his students to develop many more switchable liquid and solid materials since then. This presentation will summarize the series of switchable solvents and surfactants developed in the author’s labs.