

RSC Lecture at the School of Chemistry

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Date: Tuesday, 30th November 2010

Title: Taking measurements out of the lab-New Approaches for robust
In situ microfluidic systems

Abstract: Different approaches to developing reliable portable microfluidic systems for environmental and clinical applications will be discussed. Ways in which to simplify microfluidics systems are investigated including the use of monoliths for sample extraction, preconcentration, separation and electro-osmotic pumping. Ideas such as holding reagents in gels, using magnets and simple chemiluminescence and conductivity detectors will be discussed.