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2014 Seminar Program

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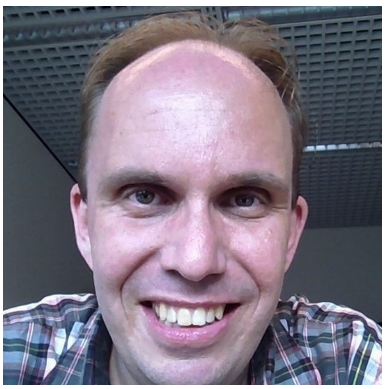
Single Molecule Imaging of Self-Assembly and Reactivity at a Solid/Liquid Interface

Prof. Hans Elemans

Radboud Universiteit (The Netherlands)

Friday 7th November, 2014. ICIQ Auditorium, 12 p.m.



Professional Career

Hans Elemans graduated in supramolecular chemistry in the group of Prof. Roeland Nolte at the Radboud University Nijmegen, The Netherlands, and he obtained his PhD in the same group in 2001. He then initiated and developed a collaboration between the physics and chemistry departments of the Radboud University, with the aim to study molecular self-assembly and catalytic processes at the single molecule scale, employing Scanning Probe Microscopy under 'chemically realistic conditions' (solid/liquid interface, room temperature & atmospheric pressure). At the same time he was involved in setting up Nano*Lab* Nijmegen, an initiative to make developments in nanoscience and nanotechnology accessible for small and medium enterprises. As part of these developments a state-of-the-art Scanning Probe Microscopy laboratory was built and opened in 2006. In 2008-2009 he stayed as a postdoctoral fellow in the group of Prof. Steven De Feyter at K.U.Leuven (Belgium), after which he returned to Nijmegen as an independent group leader at the interface of physics and chemistry. In 2010 he received an ERC Starting Grant to investigate chemical reactions at the nanoscale.

Research Interests

Current research in the Elemans group encompasses the construction and study of self-assembled molecular systems in solution and on surfaces, and to investigate their structural and functional properties at the single molecule scale employing scanning probe microscopy.