



You are cordially invited to attend the Solvay colloquium entitled

**« SINGLE MOLECULE SPECTROSCOPY AND ITS APPLICATIONS »**

**Professor Johan Hofkens**

Katholieke Universiteit Leuven,  
Department of Chemistry, Lab. of Photochemistry and Spectroscopy  
Belgium

**Abstract**

*“Over the last 15 years, single molecule spectroscopy (SMS) has been established as a new tool in the ever expanding range of spectroscopic methods. SMS is especially useful to study inhomogeneous systems. Biological systems are by their nature highly heterogeneous and as such perfect targets for SMS. From this it is clear that, next to biological samples, polymers form a study object of SMS as polymers are very often heterogeneous in their behavior. Many theories that describe polymer properties are based on a microscopic picture that now can be evaluated experimentally by applying single molecule techniques. Furthermore, single molecule techniques are very useful for the study of dynamic processes since no synchronization is needed when dynamic events are studied. In this contribution, we will show how different single molecule techniques can be used in the study of dynamic processes at the molecular level.”*

**Tuesday April 24, 2007 at 16h00**

COFFEE AND TEA WILL BE SERVED AT 15H45 IN FRONT OF THE SOLVAY ROOM

**« SALLE SOLVAY » - SOLVAY ROOM**

UNIVERSITE LIBRE DE BRUXELLES

CAMPUS PLAINE

BOULEVARD DU TRIOMPHE – ACCESS 2

BUILDING NO – 5TH FLOOR

1050 BRUSSELS

[www.solvayinstitutes.be](http://www.solvayinstitutes.be)