



## Prof. Ulrich Simon

RWTH Aachen University, Germany

### *Gold Nanoparticles: Assembly, Photothermal Actuation and Cellular Response*

This talk will give an overview about our present works on the use of DNA as a structure guiding molecule for the assembly of AuNPs, involving covalent coupling, DNA hybridization and carbohydrate-protein interaction. The concept of photothermally triggered reversible disassembly of AuNP-DNA networks will be presented along with the concept of photothermal control of biomolecular reactions. Furthermore, most recent results on the interaction of ligand stabilized AuNPs with cells will be presented.

**Wednesday, June 13 - 4:00 pm**  
**Room 136, Jorgensen Hall**

*Refreshments served at 3:45 pm*  
*Jorgensen Atrium*

Host:  
Prof. Alex Sinitskii  
Department of  
Chemistry

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