

# Kolloquium

Am Freitag, dem 21. September 2012, um 14:15 Uhr hält

**Professor Michaël Gauthier**  
**Automation and Micromechatronics Department (AS2M)**  
**FEMTO-ST Institute, Frankreich**

einen Vortrag mit dem Titel

## **Overview of the activities in micro-nano-robotics in FEMTO-ST institute**

**Der Vortrag findet im Raum A1-3-330 statt.**

### **Abstract:**

The FEMTO-ST institute is a public research institute in “engineering science” located in Besançon, France. It is composed of 7 departments involved in a scientific large spectrum including optics, time-frequency, applied mechanics, micro-nanosystems, information sciences, automation and robotics. FEMTO-ST is developing multidisciplinary programs based on basic research activities done in the departments.

The “Automation and Micromechatronics Departement (AS2M)” works on micro-nanorobotics and Pronostic and Health Management. Micronanorobotic activities has started in 1995 with Prof. N. Chaillet, currently 3 teams are working in this field including 5 professors, 12 associate professors and 2 researchers and several PhD students.

The presentation deals with an overview of the micro-nano-robotics activities based on basic research such as advanced control for micropositionning systems, microsensors design and characterisation and microworld modeling. The applications in micro-assembly transferred to the start-up Percipio Robotics and the future trends in biomedical applications are going to be introduced.

### **Short biography:**

Michaël Gauthier obtained his PhD from Université de Franche-comté in 2002. From 2002 to 2011 he was an post-doctoral researcher at Laboratoire d’Automatique de Franche-Comté, France and FEMTO-ST. In May 2011 he finished his habilitation and is now a full professor and the vice head of the AS2M department. He is the founder of PERCIPIO ROBOTICS SA and is member of the Board of Directors. His research interest include robotic micro-nano assembly, microhandling and modeling of micro-objects’ interaction. He was partner in several national and European research projects and has published 27 journal articles and over 40 articles in international conferences.

**Eingeladen von: Prof. Dr.-Ing.habil. Sergej Fatikow**