

**Donnerstag, den 3. September 2009**

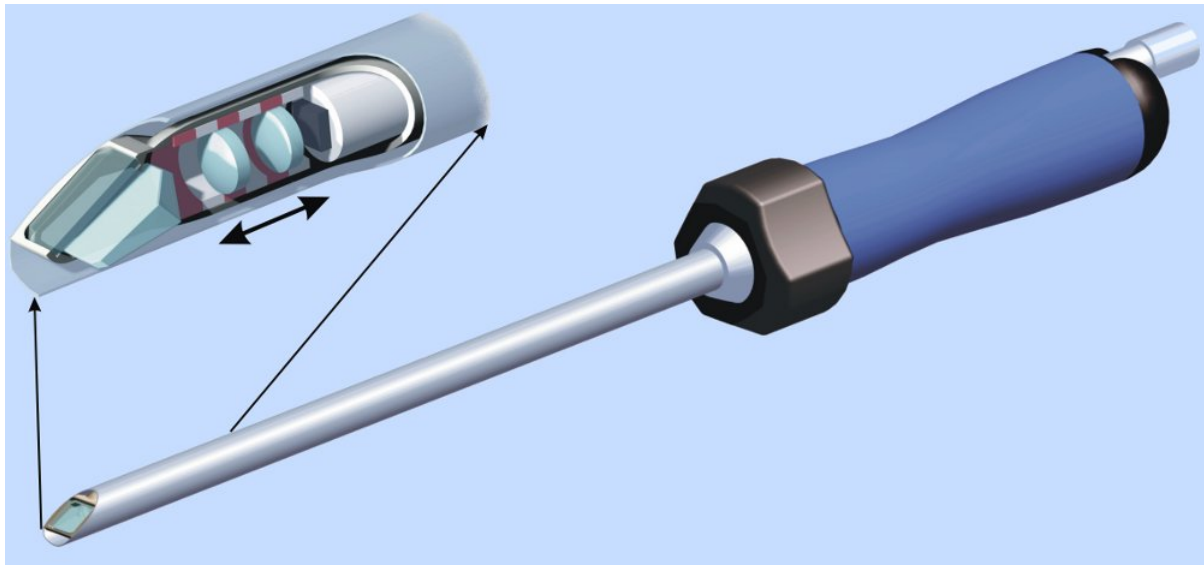
**14:30 - 15:00 Uhr**

**Ort: Neues Physikgebäude 1. Etage Westflügel Raum EW 115 A**

## **Image Focusing in Endoscopic Systems**

Talk presented at the Medical Physics and Biomedical Engineering World Congress 2009 in Munich

**Dipl.-Ing. Robert K. A. Dreyer genannt Daweke**



The presentation gives an overview of different design concepts of commercially available endoscopes and compares their advantages and disadvantages. Afterwards the design of an endoscope with autofocus developed at the Precision Engineering Department of the Technical University Berlin is presented. For the focus function the travelling field linear drive is used to move a lens group. The working principle of this actuator and its advantages are discussed. Finally an outlook of possible future developments and applications is given.