

SEMINAR at BioDonostia

Friday, September 11, 2015, 2pm

Medical Microsystems

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Nanoengineering Group*

Short Bio

- PhD in physics in 1997, University of Freiburg, Germany
 - atomic physics, subsurface analysis, inverse problems
- 1998 – 2007, optical industry at Carl Zeiss, Oberkochen
 - head of department 'Optical Technology'
 - responsible for the technology of the illumination system for EUV lithography
 - responsible for scientific optical components, such as synchrotron and space optics
 - metrology for x-ray optics
- 2007 – 2015, group leader in the Department of Microsystems Engineering, University of Freiburg
 - tunable optical microsystems
 - optical and optoelectronic microsystems for biomedical applications
 - biophotonics
 - cardiovascular parameters
 - in vivo and in vitro studies for hypertension, atherogenesis, tissue differentiation, guided electrosurgery for optimal resection of tumors
 - optical neural probes
- 2015 July, Ikerbasque Research Professor and Group Leader in Nanoengineering at CIC nanoGUNE, Donostia-San-Sebastián
- Most important awards
 - Rudolf Kingslake Medal and Prize 2013
 - Development of new technology for tunable micro-optics
 - Carl Zeiss Innovation Award 2006
 - New optical technology for the flat panel display market