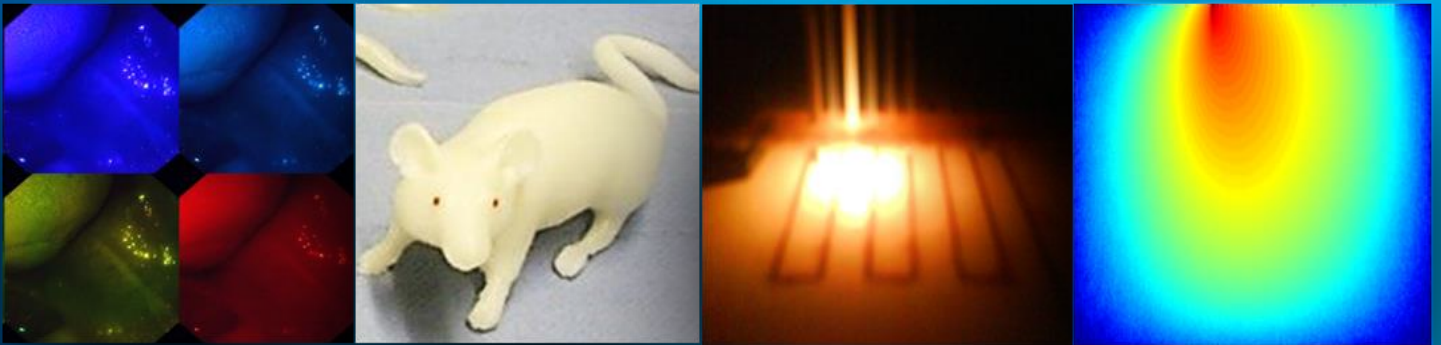


Advanced Optical Methods for Medical Diagnostics

21st International SAOT workshop on Optics in Medicine
November 25 – 26, 2013 | Erlangen, Germany



Workshop Chair:
Prof. Dr.-Ing. Michael Schmidt (Chair)
Priv.-Doz. Dr. Dr. Florian Stelzle (Co-Chair)

Local Organizing Committee:
Dipl.-Ing. Florian Klämpfl
Dr.-Ing. Rajesh Kanawade
Ms. Christina Ort

Preliminary Program

Monday, November 25	
08:00	Registration
08:30	<i>Schmidt, Michael</i> – Coordinator of SAOT Institute of Photonic Technologies, FAU Erlangen, Germany Welcome, Opening Remarks and Brief Introduction to SAOT
08:50	<i>Matthews, Dennis</i> – NSF Center for Biophotonics Science and Technology, University of California, USA “The Application of Photon-Based Technologies to the Life Sciences and Medicine: Biophotonics”
09:40	<i>Popp, Jürgen</i> – Institut für Physikalische Chemie, Universität Jena, Germany “Raman-based Biomedical Applications - the many facets of Raman Spectroscopy”
10:30	Coffee break
11:00	<i>Tunnell, James W.</i> – Biomedical Engineering, University of Texas, USA “Optical spectroscopy for the non-invasive detection of skin cancer”
11:50	<i>Mazilu, Michael</i> – SUPA, School of Physics and Astronomy, University of St. Andrews, UK “Structured illumination for imaging and spectroscopy”
12:40	Lunch break
13:40	<i>Mermut, Ozzy</i> – INO (Institut National d’Optique), Canada “Fiber optics enabled biomedical optics sensors: from the dental office, to the radiation clinic, to 250 miles above earth”
14:30	<i>Durduran, Turgut</i> – ICFO – The Institute of Photonic Sciences Mediterranean Technology Park, Spain “Diffuse optical neuro-monitoring”
15:20	Coffee break
16:00	Bus transfer to Bamberg

Evening Program (*)	
17:00	Guided City Tour through the city of Bamberg
19:00	Dinner in Bamberg
22:00	Bus transfer back to SELAU Hotel



(*) Applications are welcome (only restricted attendance possible)

Tuesday, November 26	
09:00	<i>Sandoghdar, Vahid</i> – Max Planck Institute for the Science of Light, Erlangen, Germany “Tracking biomolecules with ultrahigh spatial and temporal resolution”
09:50	<i>Macdonald, Rainer</i> – Physikalisch-Technische Bundesanstalt Department of Biomedical Optics, Germany “Measuring the time-of-flight of photons in tissue - approaches for quantitative non-invasive optical spectroscopy and imaging for biomedical applications”
10:40	Coffee break
11:10	<i>Friedrich, Oliver</i> – Institute of Medical Biotechnology, FAU Erlangen, Germany “The bad Architect: non-linear Multiphoton Microscopy reveals specific Remodeling Patterns in chronic Disease and Organ Dysfunction”
12:00	<i>Zalevsky, Zeev</i> – Faculty of Engineering, Bar-Ilan University, Israel “Novel approaches for fast, continuous and non-contact biomedical diagnostics”
12:50	Lunch break
13:50	<i>Leahy, Martin</i> – School of Physics, National, University of Ireland, Galway, Ireland “Microcirculation imaging with light and sound”
14:40	End of Workshop



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Contact Persons:

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Workshop Venue:

SELAU Hotel
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91077 Neunkirchen am Brand

www.hotel-selau.de/hotel.htm

