

The yearly meeting of the Biomedical Photonics Network
Progress in Biomedical Photonics

Program

University Hospital Zurich, 5th of June 2007 10:00 to 17:00

Morning Session at HAL auditorium (Spöndlistrasse)

09:30 Registration, coffee and croissants

10:00 Welcome and introduction by Martin Wolf and Heinrich Walt, University Hospital, Zurich

10:15 Ultra-rapid Sensing Techniques for Biomedical Imaging
Edoardo Charbon, Quantum Architecture, EPFL

10:30 Seeing more in light microscopy
Andreas Stemmer, Nanotechnik, ETHZ

10:45 Activity of the Human Visual Cortex Measured Non-Invasively by Diffusing-Wave Spectroscopy
Thomas Gisler, Physik, Universität Konstanz, Germany

11:00 Resonant Doppler Fourier Domain Optical Coherence Tomography for Optical Segmentation of Retinal Blood Flow
Adrian Bachmann, Optique Biomédicale, EPFL

11:15 On-chip Optical Tweezers Based on High-NA Micro-Mirrors
Fabrice Merenda, Advanced Photonics Laboratory, EPFL

11:30 Parallel Bioanalytics Monitored on Multiple Laser-Trapped Beads in a Microfluidic System
Johann Rohner, Imaging and Applied Optics, EPFL

11:45 Poster Flash

Lunch and Posters at Foyer NORD (NORD I Building)

12:00-14:00 Lunch and poster viewing



Afternoon Session at Large Auditorium NORD (NORD I Building)

- 14:00 Label-free detection and tracking of single viruses
Philipp Kukura, Physical Chemistry, ETHZ
- 14:15 Living cell analysis with Digital Holographic Microscopy
Benjamin Rappaz, Brain Mind Institute, EPFL
- 14:30 Detection of early bladder cancer by fluorescence imaging using Hexamino-levulinate: from the basic research to the pilot clinical trials.
Georges Wagnières, Photomedicine, EPFL
- 14:45 Detection of early bladder cancer by fluorescence imaging using Hexamino-levulinate: clinical studies and improvement of the patient management.
Patrice Jichlinski, Urology, CHUV, University-Hospital, Lausanne
- 15:00-15:30 Coffee Break
- 15:30 The skin: Fluorescence dynamic diagnosis and photodynamic therapy
Günther Hofbauer, Dermatology, University Hospital Zurich
- 15:45 FLIM and SLIM as a new sophisticated method in molecular imaging
Angelika Rück, Institute of Laser Technology, University of Ulm, Germany
- 16:00 Phase-Contrast X-ray Imaging
Rolf Kaufmann, Photonics, CSEM, Zurich
- 16:15 Cerebral Blood Flow Monitoring in Neurointensive Care
Emanuela Keller, Neurointensive Care, University Hospital Zurich
- 16:30 Optoelectronic concepts for high-precision minimally invasive joint tracking
Luigi Gallo, Zahn-, Mund- und Kieferheilkunde, University Zurich
- 16:45 FISBA award presentation and closing
- 17:00 End of meeting

Organizers

Prof. H. Walt (heinrich.walt@usz.ch) & PD Dr. M. Wolf (martin.wolf@usz.ch)
University Hospital Zurich, Frauenklinikstr. 10, 8091 Zurich, Switzerland

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