The yearly meeting of the Biomedical Photonics Network 2017

Progress in Biomedical Photonics

at the University Bern, Kuppelsaal, Hochschulstrasse 4
December 11, 2017 from 9:45 to 16:15

Program

09:45-10:15  Registration, posters, coffee and croissants

10:15-10:30  Welcome and introduction of the BMPN
Martin Wolf, President BMPN

10:30-10:45  Video-based heart rate monitoring in neonatal intensive care unit
EPFL, Lausanne, University of Zurich, CSEM Neuchâtel.

10:45-11:00  Respiration monitoring in the neonatal intensive care unit via a video camera: Preliminary results
Fabian Braun, A. Lemkaddem, V. Moser, D. Ostojic, T. Karen, O. Grossenbacher, M. Bertschi. CSEM, Neuchâtel, University of Zurich, EPFL, Lausanne.

11:00-11:15  In-vivo SO2 level imaging of arteries and veins in a human forearm using optoacoustic multiple-irradiation-sensing

11:15-11:30  Dosimetry control and monitoring of selective retina therapy using optical coherence tomography

11:30-11:45  A high-speed time-resolved image sensor for near-infrared optical tomography: challenges and opportunities

11:45-12:00  Time domain near-infrared optical tomography with time-of-flight SPAD camera: the new generation

12:00-12:15  Changes in optical properties of human head tissue during functional near-Infrared neuroimaging

12:15-12:30  On probing tissue with polarized light
M. Hornung, A. Jain, M. Frenz, H. Günhan Akarçay, University of Bern
12:30-14:30  Lunch and poster viewing
14:30-15:15 Investigating the thermal properties of the human skin for the development of new diagnostic methods in dermatology  
Mathias Bonmarin, Zurich University of Applied Sciences (ZHAW)
15:15-16:00 SPAD Imagers: a Swiss-Army-knife for Biomedical Imaging  
Edoardo Charbon, EPFL
16:00-16:15 Award ceremony and closing

We gratefully acknowledge financial support:

Registration is mandatory
Please register through bmpn2017.weebly.com at the latest by November 30, 2017; for further information: www.bmpn.ch. The meeting is free of charge for members of BMPN, SSOM, ZIHP and EXCITE. Registration fee at the meeting CHF 50.- or apply for SSOM membership (CHF 30.-).

Contacts
For scientific & technical questions: Prof. Martin Wolf (Martin.Wolf@usz.ch)
For questions regarding organization & catering: Tanja da Cunha (Tanja.daCunha@usz.ch)

Venue
The meeting takes place at the University of Bern, Kuppelsaal, Hochschulstrasse 4, Bern. Approx. 5 min. walking distance from the main station (an elevator connects the main station with the place in front of the building)