

The yearly meeting of the Biomedical Photonics Network 2013

Progress in Biomedical Photonics

at the Langhans Auditorium, Inselspital Bern, 1st Nov. 2013 from 9:30 to 16:00

Program

- 09:30-10:00 Registration, coffee and croissants
- 10:00-10:10 Welcome and introduction BMPN
Ursula Wolf, University of Bern
- 10:10-10:35 Indocyanine green (ICG) in gynecological oncological surgery
Michael Mueller, Inselspital Bern
- 10:35-10:50 Laser tissue soldering using a nanoparticle doped electrospun plug for gastric closures
Annemarie Schönfeld, University of Bern
- 10:50-11:05 Optoacoustic clutter reduction in freehand combined optoacoustic and ultrasound imaging of human volunteers
Michael Jaeger, University of Bern
- 11:05-11:20 Time domain near infrared imaging system based on supercontinuum laser and SPAD array for tumor oxygenation studies
Salvador Sanchez, University Hospital Zurich
- 11:20-11:35 Why do we reach exhaustion when exercising? The effect of muscle and brain oxygenation.
Daniela Flück, University of Zurich
- 11:35-12:00 Laser therapy in urology as exemplified in hyperplasia of the prostate
Beat Roth, Inselspital Bern
- 12:00-14:00 Lunch and poster viewing
- 14:00-14:15 NIRS, heart rate and oxygen saturation for pain assessment in preterm infants: A randomized trial
Roland Gerull, Inselspital Bern
- 14:15-14:30 Real-time investigation of protein aggregation with a Bloch surface wave sensor
Sara Santi, CSEM
- 14:30-14:45 pCO₂ as an important confounder in functional brain studies
Ursula Wolf, University of Bern
- 14:45-15:00 Multi-channel NIRS monitoring during endovascular neurointervention
Christian Rummel, Inselspital Bern

- 15:00-15:15 Cerebral hemodynamics in patients with obstructive sleep apnea syndrome monitored with NIRS during positive airways pressure therapy: a pilot study
Zhongxing Zhang, Clinic Barmelweid
- 15:15-15:30 Photoplethysmography: A smart bracelet monitoring heart rate variability
Mathieu Lemay, CSEM Neuchâtel,
- 15:30-15:50 NEUROSPEC AG Award election and presentation
- 15:50-16:00 Closing remarks
Christian Rummel, Inselspital Bern and Ursula Wolf, University of Bern

We gratefully acknowledge our sponsors:



Registration is mandatory

Please register through the website <http://www.bmpn.ch> and the latest by October 19th, 2013; for further information check here: <http://bmpn2013.weebly.com>. The meeting is free of charge for members of University of Bern, Inselspital, SSOM and CIMST. Registration fee at the meeting CHF 50.- or apply for SSOM membership (CHF 30.-).

Contacts

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Venue

The Langhans auditorium at the Inselspital (entrance 43A). It can easily be reached from Bern main station by public transportation or 15 min walk (see <http://www.insel.ch/en/directions/> or <http://www.bernmobil.ch/Seiten/fahrplan/linienubersicht/Fahrplan-nach-Linien-Stadtnetz/?oid=1807&lang=de&haltestelle=23>)