

Photonic Sensing for Environment and Health

Tuesday, 30. September 2025, 11:00 - 18:30 h

Program

- 11:00 **Laboratory tours / optional**
- Laser spectroscopy for trace gas analysis and air quality monitoring station
 - Transport at Nanoscale Interfaces Laboratory & Coating Competence Center
 - NEST & move demonstrators
- 12:00 **Lunch / optional**
- 13:00 **Welcome Coffee**
- 13:30 **Welcome**
Frank Nüesch, Empa
Tobias Lamprecht, SIH
- 13:45 **Integrated Nanophotonics: Enabling Technology for Life Science and Biomedical Applications**
Hatice Altug, EPFL
- 14:15 **Photonic sensors for transcutaneous biomarker detection**
Jean-Christophe Blancon, Liom
- 14:30 **Label-Free Biosensing with Grating-Coupled Interferometry for Drug Discovery**
Berk Yesin, Malvern Creoptix
- 14:45 **From Light to Life: PPG-Based Wearables for Continuous Vital Sign Monitoring**
Philipp Vetter, Rheo
- 15:00 **Coffee break**
- 15:30 **Exploring boundaries: environmental trace gas sensors for mobile platforms**
Béla Tuzson, Empa
- 16:00 **How traditional process photometry enables new applications**
Yves Gubelmann, Sigris Photometer
- 16:15 **From Light to Insight: Continuous Methane Monitoring for GHG Reduction**
Hedwig Knötig, Sensirion Connected Solutions
- 16:30 **Advanced light scattering solutions to accelerate new product formulations**
Gora Conley, LS Instruments
- 16:45 **From Light to Life: Advanced Metrology's Photonic Pathways into Life Science**
Jean Berney, CSEM
- 17:00 **Closing**
David Schmid, CSEM
- 17:10 **Apéro und Networking**
- 18:30 **End of the event**