

# TECHNOLOGY BRIEFING 2019

SENSORS: FROM ACADEMIC RESEARCH TO INDUSTRIAL USE

November 28, 2019

13.30—18.00

PAUL SCHERRER INSTITUT



Empa

Materials Science and Technology

csem

## Program

- 13:30      **Registration and welcome coffee**
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- 14:00      **Welcome address and introduction**  
Georges Kotrotsios, VP Marketing & Business Development, CSEM
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- 14:05      **Smart textile sensors for healthcare**  
Luciano Boesel, Group Leader and Deputy Head of the Lab Biomimetic Membranes and Textiles, Empa
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- 14:20      **Disposable lab-in-fiber devices for diagnosis**  
Bastien Schyrr, CEO, TheranOptics
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- 14:35      **Sensors for Photon Science**  
Bernd Schmitt, Group Leader Detector Development Photon Science Division, PSI
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- 14:50      **X-ray detectors at Dectris: Sensor development from science to production**  
Silke Traut, Project Manager Development, DECTRIS AG
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- 15:05      **Smart Vision Systems: from photon in to information out**  
Andrea Dunbar, Sector Head, Embedded Vision Systems, CSEM
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- 15:20      **Smart vision sensors for precision metrology**  
Pascal Dorster, COO, Precilabs SA
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- 15:35      **High-Precision Gas Spectroscopy using Quantum Cascade Lasers**  
Lukas Emmenegger, Head of Laboratory for Air Pollution / Environmental Technology, Empa
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15:50	<b>Coffee break</b>
16:15	<a href="#">Chemical sensing using MIR Lasers</a> Antoine Müller, CEO, Alpes-Lasers
16:30	<a href="#">Measuring picoseconds - pushing sensors to the limits</a> Stefan Ritt, Head of Muon Physics Group, Division Muons and Neutrons, PSI
16:45	<a href="#">Silicon carbide detector for electron beam dose monitoring</a> Vinzenz Friedli, Project Manager Technology, COMET AG, ebeam Technologies
17:00	<a href="#">Plastic antibodies : How to mimic one of nature's best chemical sensors?</a> Frédéric Loizeau, Business & Technology Development Manager, CSEM
17:15	<a href="#">Miniaturized sensor for smart water monitoring</a> Frédéric Ruffi, R&D Manager, Bürkert Fluid Control Systems
17:30	<b>Networking aperitif</b>