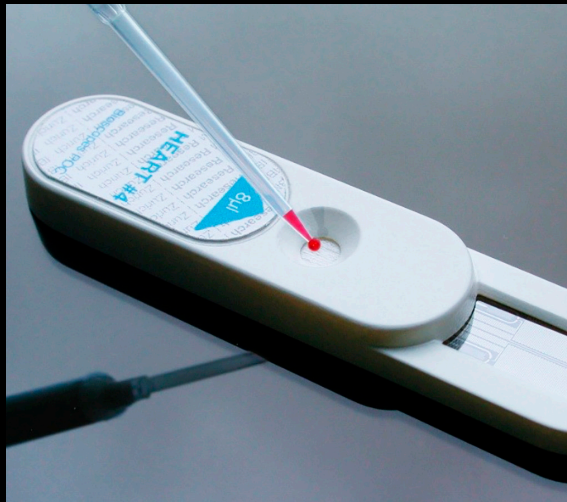


# Einladung microTalk

Montag, 4. Dezember 2017  
CSEM Zentrum Alpnach



## Point-of-care diagnostics 2.0 Microfluidics for mobile health

Dr. Emmanuel Delamarche  
IBM Research - Zuerich

 **csem**  
in Zusammenarbeit mit

 **mccs** Micro Center  
Central-Switzerland

# WILLKOMMEN BEIM CSEM IN ALPNACH

## Point-of-care diagnostics 2.0

### Microfluidics for mobile health

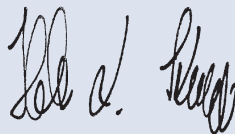
Diagnostics are ubiquitous in healthcare because they support prevention, diagnosis and treatment of diseases. Point-of-care diagnostics are particularly attractive for identifying diseases near patients, quickly, and in many settings and scenarios. IBM Research works on the development of capillary-driven microfluidic chips for highly miniaturized immunoassays. This presentation will review how to program capillary flow and encode specific functions to form microfluidic elements that can easily be assembled into self-powered devices for immunoassays, reaching unprecedented levels of precision for manipulating samples and reagents. This technology can also be augmented using peripherals and smartphones for flow control and monitoring with sub-nanoliter precision. Is the next generation of point-of-care devices finally coming?

Dr. Delamarche is leading activities on Precision Diagnostics at IBM Research - Zurich. One of his main projects deals with the development of portable and precise diagnostic devices using microfluidic concepts and smartphones. He is also a Lecturer at ETH Zurich and a contributor to scientific panels for grant agencies and governments. He published over 120 papers and is co-inventor on more than 70 patent families. He has received numerous awards from IBM, was named "Master Inventor" by IBM, and received the Werner prize of the Swiss Chemical Society in 2006.

Freundliche Grüsse



Philippe Steiert  
Direktor CSEM Regionalzentren



Helmut F. Knapp  
Leiter CSEM Zentrum Alpnach

# PROGRAMM

Montag, 4. Dezember 2017

17.00 **Begrüssung**

Helmut Knapp  
Leiter CSEM Zentrum Alpnach

17.10 **Point-of-care diagnostics 2.0**  
Microfluidics for mobile health

Emmanuel Delamarche  
IBM Research - Zuerich

18.00 **Diskussion**

18.15 **Apéro**

19.00 **Ende der Veranstaltung**

## ALLGEMEINE HINWEISE

**Datum** Montag, 4. Dezember 2017

**Zeit** 17.00 – 19.00 Uhr

**Ort** CSEM Zentrum Alpnach  
Untere Gründlistrasse 1, 6055 Alpnach  
(Wegen begrenzter Parkmöglichkeiten  
wird die Anreise mit dem ÖV empfohlen.)

**Sprache** Der Vortrag wird **in Englisch** gehalten

**Kosten** Die Teilnahme ist kostenlos

**Auskunft** Sekretariat CSEM Zentrum Alpnach  
Telefon: 041 672 75 11

**Anmeldung** Bis Donnerstag, 30. November 2017  
per Post oder E-Mail:  
CSEM Zentrum Alpnach  
Untere Gründlistrasse 1  
6055 Alpnach  
alpnach@csem.ch  
(Die Anmeldung wird nicht bestätigt.)

**Name, Vorname**

**Firma**

**Adresse**

**PLZ / Ort**

**E-Mail**