

**TEDD** Competence Centre

**Tissue Engineering for Drug Development and Substance Testing** 

# **Open TEDD Talk**

# 16<sup>th</sup> April 2018

**Prof. Dr. Dieter Trau** National University of Singapore (NUS)

Personal Photometer "Photopette" and "Lab-in-a-Tip" for Rapid On-spot Measurements

14:30 Lecture 15:30 Networking Coffee

ZHAW, ICBT, Campus Reidbach, RS05 Wädenswil, Switzerland

www.zhaw.ch/icbt/tedd

info.tedd@zhaw.ch





## Personal Photometer "Photopette" and "Lab-in-a-Tip" for Rapid On-spot Measurements

#### Abstract

Photometric methods are universally used to measure concentrations of various analytes in liquid samples. Today, photometers are bench-top devices of significant bulk and cost; they require the use of cuvettes have a tedious workflow, need large sample volumes and risk sample contamination. We have developed the Photopette handheld personal photometer systems to revolutionize spectrophotometric analysis in life sciences, environmental monitoring and point-of-care diagnostics. The Photopette is a handheld device and together with our Lab-in-a-Tip technology enables on the spot measurements of several analytes. The technology is now commercialized by the NUS spin-off company Tip Biosystems Pte Ltd.

Bio



Dr. Dieter Trau is an Associate Professor at the Department of Biomedical Engineering at the National University of Singapore (NUS). His main research are are biosensors and bioanalytical methods and devices. Dieter is also a serial-inventor entrepreneur. He started his entrepreneurial activities as a founder of a life-science company in 1995. In 2010 Dieter founded the "AyoxxA Group" in

Singapore and Germany, now a 25 million EURO VC funded company. Followed by "Tip Biosystems Pte Ltd" that he founded in 2014 to commercialize a personal handheld photometer termed "Photopette". Dieter holds a PhD in Chemistry from the Hong Kong University of Science and Technology (HKUST). He is the author of >50 international peer-reviewed research papers and inventor of 17 patent families, resulting in ~100 patent applications of which >20 are granted and commercialized by various companies.





#### Cost

Free of charge

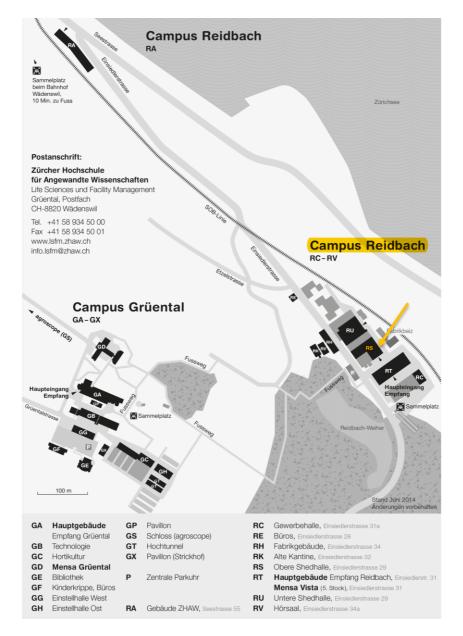
### Registration

www.zhaw.ch/icbt/tedd

Deadline for registration is 12.04.2018

#### Location

## Please use the public transport since there is no free parking on site.





Für Campus Grüental: Autobahnausfahrt Wädenswil

en Verkehrsmitteln

Ab Bahnhof Wädenswil

Für Campus Reidbach (Gebäude RC-RV):

(Navigationsgerät: Grüentalstrasse 14)

(Navigationsgerät: Einsiedlerstrasse 31)

Campus Reidbach/Einsiedlerstrasse (RC-RV)

Haltestelle «Campus Grüental» Campus Grüental (GA-GX)

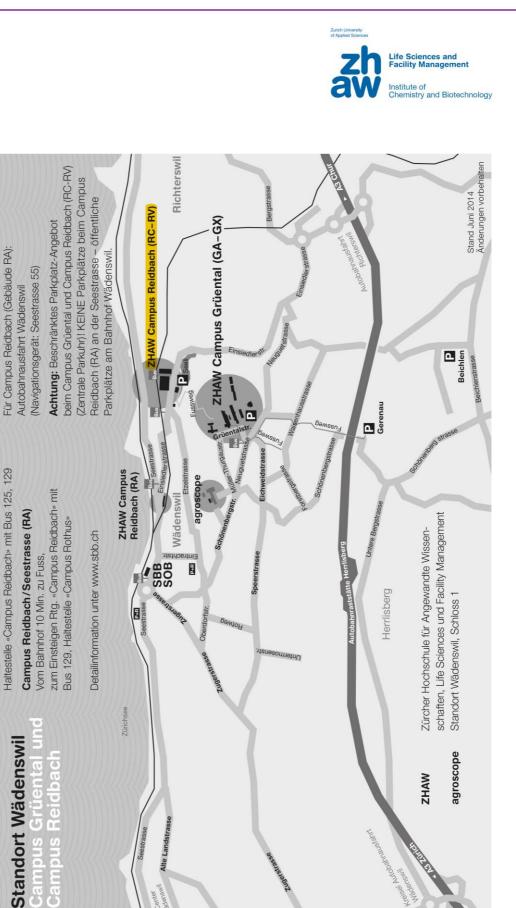
Life Sciences und Facility Management

Zürcher Hochschule für Angewandte Wis

Cambus

mit Bus 123, 126, 150, 160

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