



**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](http://www.zhaw.ch/icbt/tedd)**

**[info.tedd@zhaw.ch](mailto: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](http://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.





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**Life Sciences und  
Facility Management**

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Campus Grüental und  
Campus Reidbach**

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**Campus Reidbach/Einsiedlerstrasse (RC-RV)**  
Haltestelle «Campus Reidbach» mit Bus 125, 129

**Campus Reidbach/Seestrasse (RA)**  
Vom Bahnhof 10 Min. zu Fuss,  
zum Einsteigen Rtg. «Campus Reidbach» mit  
Bus 129, Haltestelle «Campus Rothus»

Detailinformation unter [www.sbb.ch](http://www.sbb.ch)

**Anreise mit privaten Verkehrsmitteln**  
Für Campus Grüental: Autobahnausfahrt Wädenswil  
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Autobahnausfahrt Richterswil  
(Navigationsgerät: Einsiedlerstrasse 31)

Für Campus Reidbach (Gebäude RA):  
Autobahnausfahrt Wädenswil  
(Navigationsgerät: Seestrasse 55)

**Achtung:** Beschränktes Parkplatz-Angebot  
beim Campus Grüental und Campus Reidbach (RC-RV)  
(Zentrale Parkuhr)! KEINE Parkplätze beim Campus  
Reidbach (RA) an der Seestrasse – öffentliche  
Parkplätze am Bahnhof Wädenswil.

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Stand Juni 2014  
Änderungen vorbehalten