

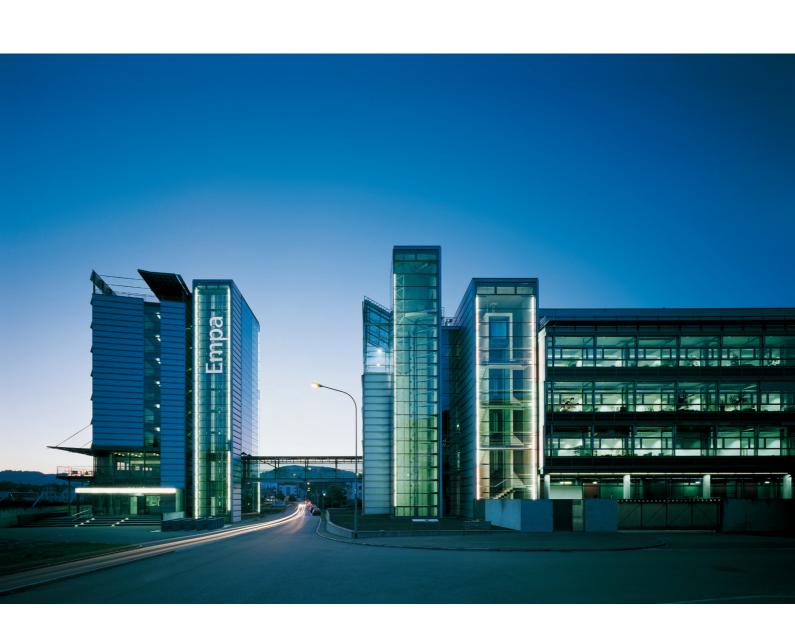




TEDD Workshop

Materials Meet Life

Empa in St.Gallen Thursday, November 30th, 2017



Materials Meet Life

Empa in St. Gallen is pleased to invite the members and partners of the TEDD Competence Centre to a gripping journey through the world of research and innovation – especially into the world where «Materials Meet Life».

With innovative materials into a healthy future – the goal of Empa's Research Focus Area "Health and Performance" is to provide innovative and sustainable technologies and products for the textile, biotech and medtech industries at the interface of materials and life sciences.

Protecting people, promoting good health in a sustainable manner, maintaining and improving our quality of life and physical constitution – these are and will remain major challenges, especially in view of our increasing life expectancy. In the Research Focus Area "Health and Performance", we pool our interdisciplinary expertise in the fields of textiles, material science, biology, medtech and



nanotechnology. We focus on the development of materials for medical applications in and on the human body, and re-search materials and new systems that protect and support us in our daily lives. Moreover, we examine the interactions of new materials closely and develop new methods to study this in biological systems – in close collaboration with hospitals and industrial partners.

As an information and matchmaking hub, TEDD transfers knowledge and technologies in order to promote the development and application of 3D cell culture. The TEDD community is currently composed of partners from academia, clinical medicine and industry. The industrial partners represent the majority of TEDD partners, and comprise a spectrum from young spin-off company to world player. Thus, TEDD represents the entire value chain of biotech R&D relevant for 3D tissue engineering, be it ultraflat 3D monolayer culture, bioprinted tissue constructs, or organoids.

Date: Thursday, November 30th, 2017

Time: 12:00 – 17:00

Location: Lerchenfeldstrasse 5, 9014 St. Gallen (see map)

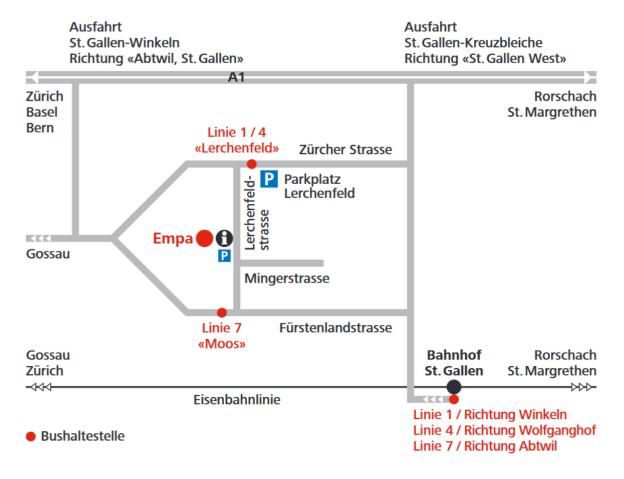
Program

Material Meets Life

TIME	TOPIC	PRESENTER
November 30 th , 2017		
12:00 – 13:00	Networking Lunch	
13:00 – 13:10	Opening of the Meeting	Prof. Dr Michael Raghunath Head of TEDD Competence Centre, Zurich University of Applied Sciences (ZHAW)
13:10 – 13:20	Welcome	Prof. Dr Alex Dommann Member of the Empa Board, Head of Department «Materials Meet Life»
Presentations		
13:20 – 13:30	Particles for Healthcare	Dr Tina Bürki Laboratory for Particles-Biology Interactions
13:30 – 13:40	In vitro cell models with and for materials research @Empa	Dr Markus Rottmar Laboratory for Biointerfaces
13:40 – 13:50	Structured Nanofibers for Controlled Drug Release and Tissue Engineering	Dr Giuseppino Fortunato Laboratory for Biomimetic Membranes and Textiles
13:50 – 14:00	X-Ray in Bio-Imaging – make the invisible visible	Dr Amin Sadeghpour Center for X-ray Analytics
14:00 – 14:10	Surface effects in Bio-Analytics	Prof. Dr Manfred Heuberger Laboratory for Advanced Fibers
14:10 – 14:20	Bio-chemical mapping by Tof-Sims	Dr Laetitia Bernard Laboratory for Nanoscale Materials Science
14:20 – 14:30	Monitoring biochemical interactions with Silicon devices	Dr Michel Calame Laboratory for Transport at Nanoscale Interfaces
Guided Laboratory Visits	Groups of 8 person, 15' per lab	
	Perfusion Laboratory	Dr Tina Bürki Laboratory for Particles-Biology Interactions
	Microbiological S2 Laboratories	Dr Qun Ren Zulian Laboratory for Biointerfaces
14:30 – 16:00	E-spinning Demonstration	Dr Giuseppino Fortunato Laboratory for Biomimetic Membranes and Textiles
	SAXS	Dr Amin Sadeghpour Center for X-ray Analytics
	Protein-Adsorption TiNAS	Prof. Dr Manfred Heuberger Laboratory for Advanced Fibers
16:00 – 17:00	Networking Apéro and Farewell	

How to Get There

We recommend using public transport, as parking space is limited.



By train (from St. Gallen main station)

Bus VBSG, line 1, (every 12 minutes) Direction «Winkeln» till «Lerchenfeld» bus stop

Bus VBSG, line 4, (every 12 minutes) Direction «Wolfganghof» till «Lerchenfeld» bus stop

Bus VBSG, line 7, (every 10 minutes) Direction «Abtwil / St. Josefen» till «Moos» bus stop

By car

Access coming from Zurich:

Motorway exit «St. Gallen-Winkeln», Direction «Abtwil, St. Gallen»

Access coming from St. Margrethen:

Motorway exit «St. Gallen-Kreuzbleiche», Direction «Engelburg St. Gallen-West»