

## HOW TO GET THERE

Inselspital Bern – Room D 103, Frauenklinik

By car:

- From motorway A1 exit Bern-Forsthaus, follow signs „Inselspital“ and „Insel-Parking“
- Insel-Parking on the left side, Murtenstrasse 12

By public transport from Bern station:

- At the Welle exit, follow down Schanzenstrasse
- At Hirschengraben, take tram 7 or 8 (Bümpliz/Brünnen Westside Bahnhof) to Loryplatz, walk back 200 meters to Frauenklinik
- Or walk across Hirschengraben, go to the right and walk along Effingerstrasse for 10 minutes

## PRACTICAL INFORMATION

### Registration

Before September 19, 2014 by e-mail to Evelyne Wohnrau: [evelyne.wohnrau@innovativesurfaces.ch](mailto:evelyne.wohnrau@innovativesurfaces.ch) or online on [www.innovativesurfaces.ch](http://www.innovativesurfaces.ch).

### Fees

Members Association NTN Innovative Surfaces: CHF 90.00 (excl. VAT)  
Non-members: CHF 120.00 (excl. VAT)

### Annulation

Before September 19, 2014: CHF 50.00 (excl. VAT).  
Afterwards full fee. A replacement is accepted.

**Language** Talks and slides in German and English



## WORKSHOP SERIES

### New approaches to germ-inhibiting surfaces

#### WORKSHOP 2:

### Chemical-biological functionalization



Friday, September 26, 2014

13.30-17.30

Inselspital Bern

Room D 103, Frauenklinik

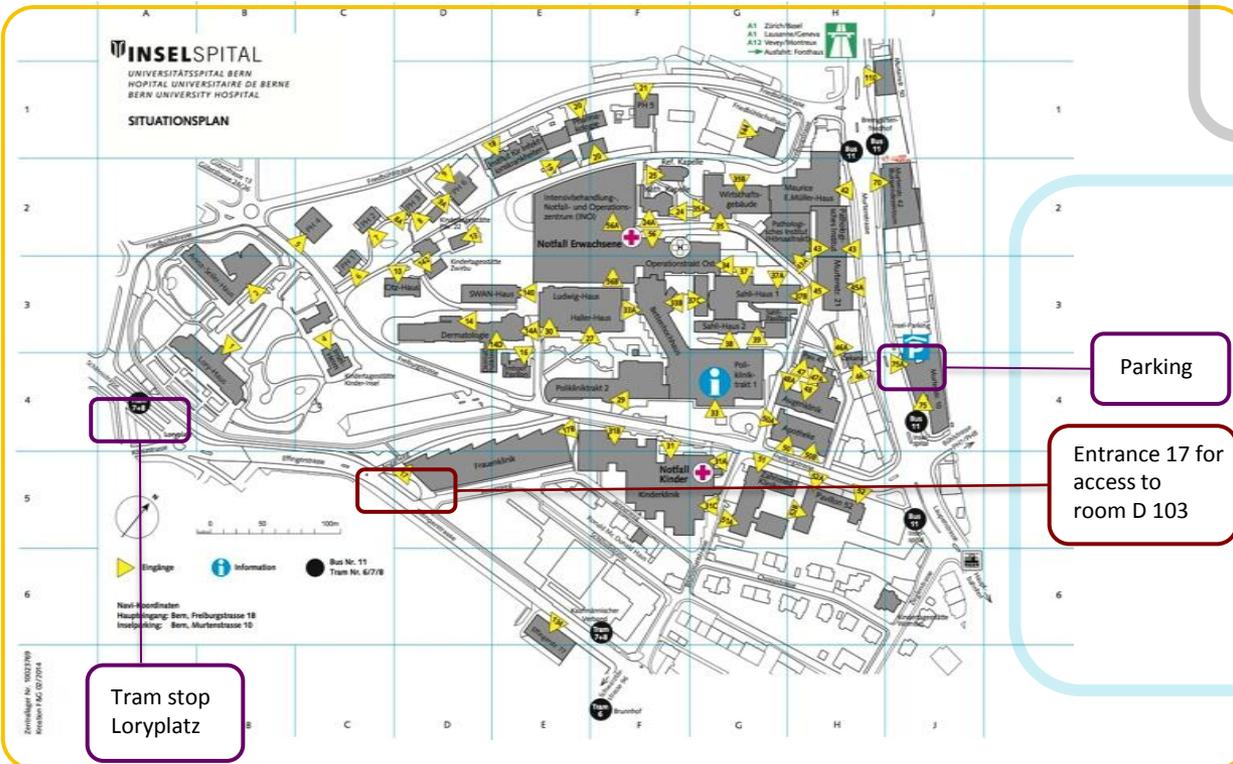
In cooperation with the CTI

 **KTT-Support**  
National thematic networks

 Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Swiss Confederation

Commission for Technology and Innovation CTI



Tram stop  
Loryplatz

Parking

Entrance 17 for  
access to  
room D 103

## WORKSHOP SERIES

Germ-inhibiting surfaces reduce the adhesion and proliferation of microorganisms.

Participants of the workshop series discuss with experts new methods of surface structuring and coating as well as connected physical, chemical and biological mechanisms. Biocide-releasing systems will not be discussed.

### WORKSHOP 1, June 30, 2014:

Surface structuring and physical coating

### WORKSHOP 2, September 26, 2014:

Chemical-biological functionalization

### WORKSHOP 3, October 2014\*:

Measurement methods and application.

\* Date will be announced in workshop 2.

## PARTICIPANT BENEFIT

Participants discuss new strategies and innovation ideas. Experts contribute with essential knowledge. If desired, cooperations for practical implementation can be discussed.

## ORGANIZER

With the knowledge and technology transfer network, the association NTN Innovative Surfaces facilitates the transfer of research-derived solutions into high impact surface technologies and products.

Join our group:

Verein NTN Innovative Oberflächen  
Lerchenfeldstrasse 5  
CH-9014 St. Gallen



[info@innovativesurfaces.ch](mailto:info@innovativesurfaces.ch)  
[www.innovativesurfaces.ch](http://www.innovativesurfaces.ch)



## PROGRAM WORKSHOP 2 Talks and slides English/German

### 13:30 Welcome and introduction

Moderation: Jörg Güttinger, Alessa Hool (MatSearch Consulting)

### 13:40 Antimikrobielle Oberflächen – Prinzipien und Leistungsfähigkeit

Heinz Katzenmeier (Sanitized AG)

### 14:00 Multi-functional nanocomposite plasma coatings

Dirk Hegemann (Empa)

### 14:20 Novel Polymer Brush-Based Coatings for Regulating Bioadhesion

Ângela Serrano (SuSoS AG)

### 14:40 Novel production routes for photocatalytic titania layers

Paul Bowen (EPFL)

### 15:00 Impact of combining micro-nano structures and functional layers on germ-inhibiting surfaces

Eva Maria Moser (HES hepia)

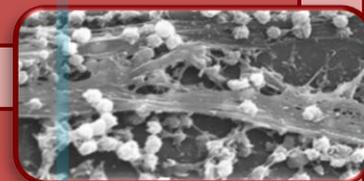
### 15:20 Coffee Break

### 16:00 Discussion

### Potentials for application and innovation

Moderation: Jörg Güttinger, Alessa Hool

### Around 17.30 Apéro, Networking



## TOPIC WORKSHOP 2

Interactions between materials surfaces, biomolecules (proteins) and germs (bacteria, viruses, fungi, protozoa) are determined by a variety of factors: amongst others through chemical and/or biological modifications. Whereas in the beginning of this development, the technologies worked with “leaching” systems, today’s approaches try to cope without releasing substances and thus having less unwanted effects on humans and the environment. In this workshop, different approaches of state-of-the-art chemical and biological material functionalization for reducing germ attachment are discussed. In the second part, the focus is on practical implementation as well as on discussions about possible future collaborations.

## PARTICIPANTS

The seminar addresses researchers from industry and academia as well as decision makers in the field of new technologies and further development of existing solutions.