

HOW TO GET THERE

Inselspital Bern – Room D 517, Polyklinik

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 exit “Welle”, follow down Schanzenstrasse
- At bus stop Hirschengraben, take bus 11 (direction Güterbahnhof) to Inselspital, or walk along Laupenstrasse for about 10 minutes

PRACTICAL INFORMATION

Registration

Before June 20, 2014 by e-mail to Evelyne Wohnrau evelyne.wohnrau@innovativesurfaces.ch or online on www.innovativesurfaces.ch

Fees

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

Annulation

Before June 20, 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 1

Surface structuring and physical coating

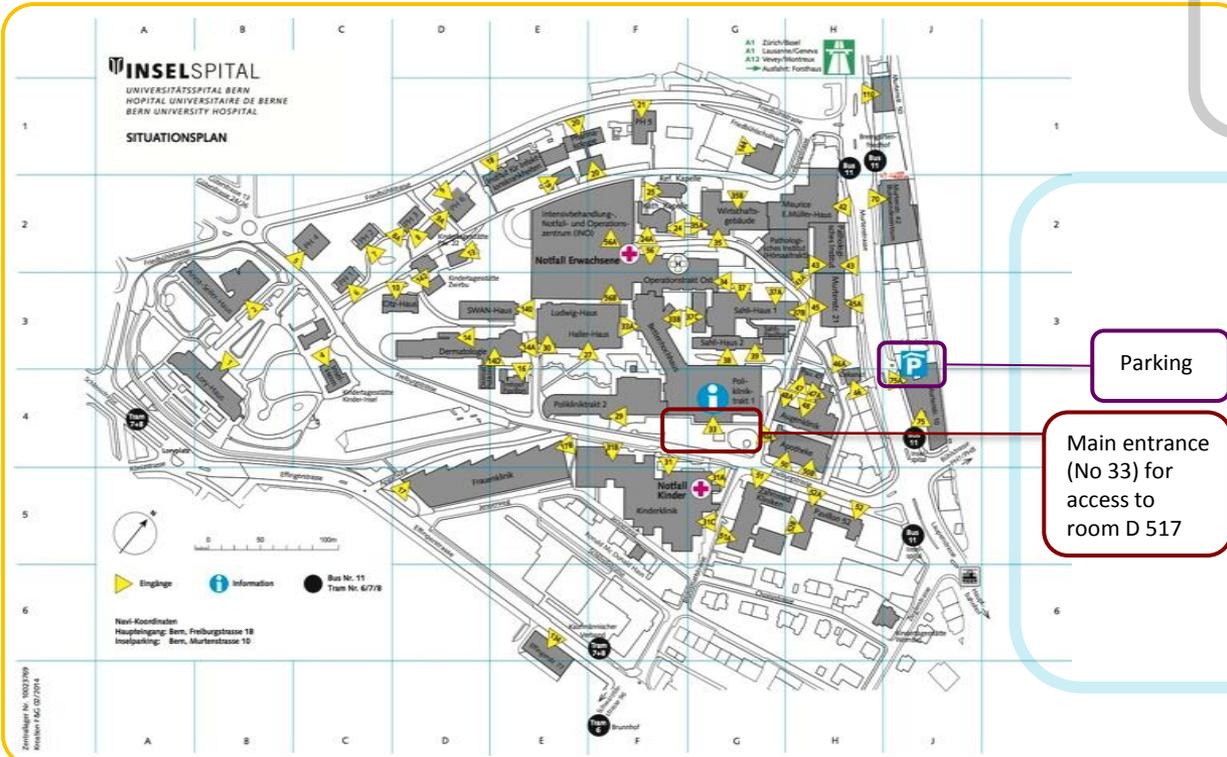


Monday, June 30, 2014

14.00-17.30

Inselspital Bern

Room D 517, Polyklinik



Parking

Main entrance (No 33) for access to room D 517

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

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 2014*

Chemical-biological functionalization

WORKSHOP 3, October 2014*

Measurement methods and application.

* Dates will be announced in workshop 1.

PARTICIPATION BENEFITS

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 and development solutions into high impact surface technologies and products.

Join our group:



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

info@innovativesurfaces.ch
www.innovativesurfaces.ch



PROGRAM WORKSHOP 1 Talks and slides English/German

14.00 Welcome and introduction

Moderation: Jörg Güttinger, Alessa Hool (MatSearch Consulting)

14.15 Surface structures influencing biointeraction

Patrik Hoffmann (EPFL/Empa), Arie Bruinink (Empa)

15:00 Manufacturing and replication technologies of functional micro- and nanostructures

Christian Rytka (FHNW)

15:30 Design, preparation and evaluation of TiO₂ composite uniform, adhesive surfaces

John Kiwi (EPFL)

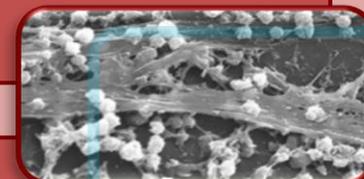
16:00 Coffee Break

16.30 Practical implementation and perspectives

Current status: Potential for application and innovation

Moderation: Jörg Güttinger, Alessa Hool

Around 17.30 Apéro, Networking



TOPIC WORKSHOP 1

Interactions between materials surfaces, biomolecules (proteins) and germs (bacteria, viruses, fungi, protozoa) are determined by a variety of factors: amongst others chemical composition, surface charge and/or topographical structure of the material surface.

Proteins are bonding agents for germs on surfaces. If they adhere, often undesirable biofilms are formed. Through alterations in the nano- and micro-scale, adhesive properties of materials can be influenced and controlled.

The first workshop addresses physical approaches for structuring inorganic and organic/polymeric surfaces. New research impulses are presented in the early afternoon. In the second part, the focus is on practical implementation as well as on discussions about possible future collaborations.

PARTICIPANTS

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