

## Contact

Biomaterials Science Center (BMC)  
University of Basel  
c/o University Hospital Basel  
4031 Basel  
Switzerland  
www.bmc.unibas.ch

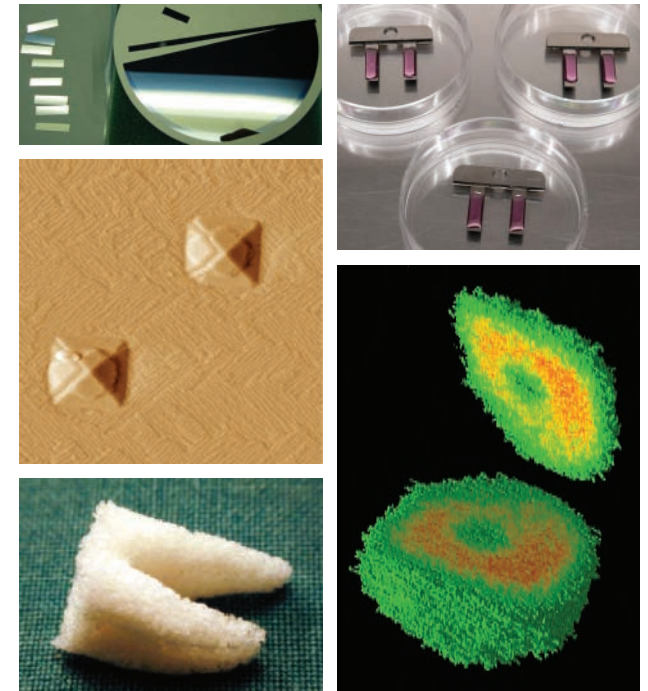
## Venue

ZLF, Kleiner Hörsaal  
University Hospital Basel  
Hebelstrasse 20, CH-4031 Basel



## Open House Symposium

## Biomaterials Science Center



### Symposium Chair

Bert Müller, PhD  
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### Symposium Secretary

Verena Grötzinger  
verena.groetzinger@unibas.ch  
tel.: +41 61 265 9659

We kindly ask you to confirm your participation.

### Arrival train station SBB:

Bus #30 to "Bernoullianum", 2 min. walk to ZLF  
Arrival train station Badischer Bahnhof Basel:  
Bus #30 to "Bernoullianum", 2 min. walk to ZLF

### Arrival airport Mulhouse/Basel:

Airport shuttle to train station SBB (see above)  
Arrival Zurich airport:  
Train to station SBB (see above)

### Arrival car:

City-Parking directly at University Hospital

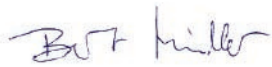
University Hospital Basel  
March 3, 2007

# Program

Dear colleagues and friends,  
in 2005, the Medical Faculty established the research and education focus, Clinical Morphology and Biomedical Engineering (CMBE). Thanks to the efforts of A. Perruchoud, E. Morscher, W. Dick, W. Steinbrich, H.-F. Zeilhofer and others, a sound structure was created. With the generous endowment from Thomas Straumann, the Chair of Materials Science in Medicine has been established within CMBE. The purpose is to make biomaterials science a major new growth area for research and technology development in Basel.

I am very pleased to have been elected as Chair and to launch the Biomaterials Science Center (BMC). The BMC is attracting third-party funds from public, NGO and private sources to create a versatile, innovative organization, working at interdisciplinary boundaries and intimately linked to the needs of the University Clinics.

During the symposium, a spectrum of research activities will be presented to show the potential of biomaterials science to a diverse audience, including university students, industry professionals, local physicians and international partners. We are proud to have four invited talks from well-known medical and engineering experts. In the Open House, the BMC students and partners will present their activities in a poster session. It is my pleasure to invite you broaden your acquaintance with biomaterials, have some fruitful discussions and consider starting initiatives with us.



Bert Müller, PhD  
Thomas Straumann-Chair  
of Materials Science in Medicine  
University of Basel

10:00 Opening Remarks  
Carlo Conti, LLD  
*Regierungsrat, Head Health Departement*  
Peter J. Meier-Abt, MD  
*Vice-Rector University of Basel*  
Hans-Florian Zeilhofer, MD, DDS  
*Speaker CMBE*

Session I (Chair: A.U. Dan Daniels, PhD)

10:15 **Frank Witte**, MD  
Tomographic imaging using synchrotron light: Benefit for orthopedic research

11:00 **James Kirkpatrick**, MD, PhD  
Cell morphology and function in biomaterials and tissue engineering

11:45 Introduction by Bert Müller, PhD  
**BMC Poster Session**  
and Buffet Lunch

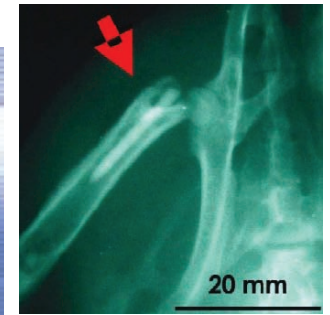
Session II (Chair: Lutz P. Nolte, PhD)

14:00 **Gabor Kovacs**, PhD  
Artificial muscles based on electrically activated polymers

14:45 **Bradley Nelson**, PhD  
Advanced instruments for surgical interventions

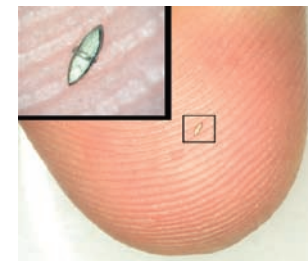
15:30 Closing Remarks  
Bert Müller, PhD

**Frank Witte**, MD, orthopedic specialist at the Hannover Medical School, Germany, is internationally recognized, active researcher and entrepreneur in the field of magnesium-based, bioresorbable implants.



**James Kirkpatrick**, MD, PhD, DSc, FRCPath, FBSE, Director of the Institute of Pathology at Johannes Gutenberg University Mainz, is vigorous researcher and currently the President of the European Society for Biomaterials.

**Gabor Kovacs**, PhD, Division Head Materials and Engineering at the Swiss Institute for Materials Testing and Research, leads the development of artificial muscle-driven robotic arms, based on dielectric elastomers.



**Brad Nelson**, Professor of Robotics and Intelligent Systems and NCCR Co-Me project leader, is currently the Dean of the Department of Mechanical and Process Engineering at ETH Zurich.