



Bern University
of Applied Sciences

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**UNIVERSITÄT
BERN**

Biomedical Engineering Day Program & Exhibition



May 29, 2024
Bern, Inselspital
Auditorium Ettore Rossi

Pictures taken at the BME Day 2024 may be used for further publications of the BME master's program or the ARTORG Center, University of Bern, such as websites and annual reports.

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Program

- 08.30 Welcome & Introduction**
Hugues Abriel, Vice-Rector University of Bern
Sebastian Wörwag, Rector Bern University of Applied Sciences
- 08.45 Biomedical Engineering Research & Education – An Update**
Philippe Zysset, ARTORG Center and MSc BME, University of Bern
- 08.55 Master's Program Artificial Intelligence in Medicine – An Update**
Stavroula Mougiakakou, ARTORG Center and MSc AIM, University of Bern
- 09.05 From Idea to Investment: Promoting Entrepreneurial Projects at UniBE**
Sébastien Hug, Innovation Office, University of Bern
- 09.15 Presentation of Medical Technology Companies**
Nadia Moeri, Ypsomed AG
Ypsomed – Making Selfcare Simpler and Easier
Jan Hermann (alumnus ARTORG), Cascination AG
Bringing Certainty to Medical Treatment Outcomes – Our Story
Richard Büchi /Dominic Kastner, Ziemer Ophthalmic Systems AG
What's new at the Ziemer Group?
Samantha Paoletti, CSEM
Pioneering Urinary Health Solutions: An Exploration of Innovative Technologies
Alexander Grundmann (alumnus MSc BME), Johnson & Johnson
BME Graduates at DePuy Synthes, An Ideal Match
Dieter Ulrich, Helbling Technik Bern AG
How to Make Medical Devices Smarter

Nicolas Bouduban (alumnus MSc BME),
Swiss m4m Center
*Challenges and Opportunities of 3D-Printed
Medical Devices*

Clemens Wagner, Haag-Streit GmbH
High-end Simulation for Medical Education.

**10.00 Coffee Break / Visit Medtech Companies and
Research Groups**

Participants may meet with representatives of
Medtech companies at their booths and visit
the research exhibits of the University of Bern
and the Bern University of Applied Sciences.

10.45 BME Club Awards (Alumni BME Master)
Best Master's Thesis Abstract (rank 1, 2 and 3)

11.00 Award Presentations

Best Master's Thesis Award (Innovation)
(sponsored by Swiss Engineering)

Pascal Buchs, BME alumnus, University of Bern
*Design of a New Device for Heart Valve Repair
Testing*

Best Master's Thesis Award (Basic Science)
(sponsored by Swiss Engineering)

David Sprecher, BME alumnus, University of
Bern
*Objective Impedance Features of Cochlear
Implants for the Evaluation of Hearing
Preservation*

Best PhD Thesis Award (sponsored by CCMT)

Tatiana Kochetkova, ARTORG Center,
University of Bern
*Quantifying Bone Extracellular Matrix Properties
for Improved Clinical Fracture Risk Prediction*

11.45 Live Surgery

Karl Sommer, Department of Urology,
University Hospital Bern (Inselspital)

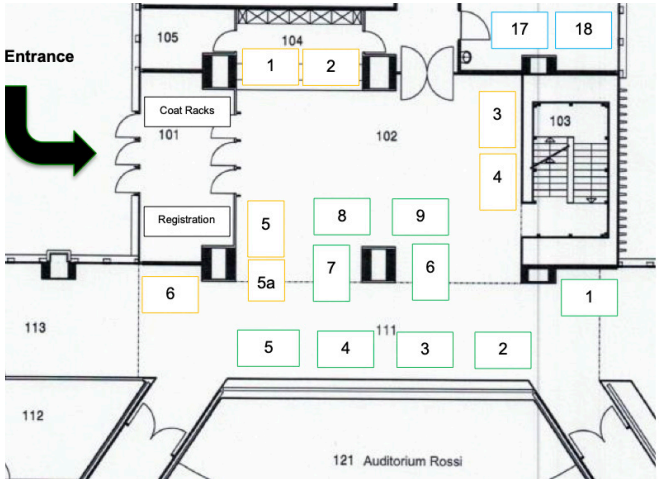
Moderator: **Beat Roth,** Department of Urology,
University Hospital Bern (Inselspital)

**12.45 Lunch and Visit Medtech Companies and
Research Groups**

14.00 End of BME Day

Industrial and Research Exhibition

Exhibitors' Plan (Foyer)



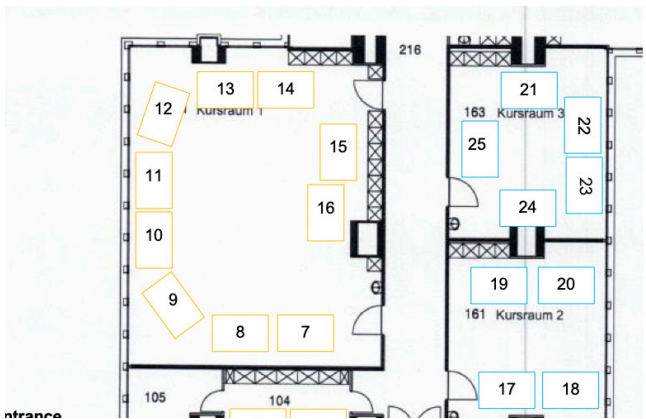
Foyer (Company)

- 1 Haag-Streit AG
- 2 Ziemer Ophthalmic Systems AG
- 3 CSEM
- 4 Bien-Air Surgery SA
- 5 Johnson & Johnson: Synthes GmbH
- 6 Cascination AG
- 7 Ypsomed AG
- 8 Helbling Technik Bern AG
- 9 Swiss m4m Center

Foyer (Research Groups / University of Bern et al.)

- 1 UniBE, ARTORG Center, AI in Health and Nutrition
- 2 UniBE, UDEM & Diabetes Center Bern, Sensing & Monitoring Lab
- 3 UniBE, ARTORG Center, AI in Medical Imaging Laboratory
- 4 UniBE, ARTORG Center, Medical Image Analysis
- 5 MSc Artificial Intelligence / MSc Biomedical Engineering / MSc Precision Engineering
- 5a BME Club (MSc students and alumni)
- 6 Support Center for Advanced Neuroimaging (SCAN) / HORAO Research Group

Exhibitors' Plan (Course Rooms)



Course Room 1 (Research Groups/University of Bern)

- 7 UniBE, ARTORG Center, Musculoskeletal Biomechanics
- 8 UniBE, ARTORG Center, Computational Bioengineering
- 9 UniBE, ARTORG Center, Gerontechnology and Rehabilitation
- 10 UniBE, ARTORG Center, Hearing Research Laboratory
- 11 UniBE, ARTORG Center, Cardiovascular Engineering
- 12 UniBE, ARTORG Center, Urogenital Engineering
- 13 UniBE, ARTORG Center, Image-Guided Therapy
- 14 UniBE, ARTORG Center, Neuro Robotics
- 15 UniBE, ARTORG Center, Organs-on-Chip Technology
- 16 UniBE, DBMR, Tissue and Mechanobiology

Course Room 2 (Research Groups / Bern University of Applied Sciences)

- 17 BHF, Institute for Human Centered Engineering, microLab
- 18 BHF, Institute for Human Centered Engineering, microLab
- 19 BHF, Institute for Human Centered Engineering, bmeLab
- 20 BHF, Institute for Human Centered Engineering, bmeLab

Course Room 3 (Research Groups / Bern University of Applied Sciences)

- 17 BFH, Institute for Human Centered Engineering, rehaLab
- 22 BFH, Institute for Human Centered Engineering, roboticsLab
- 23 BFH, aR&D Physiotherapy, Bern Movement Lab
- 24 BFH, Institute for Human Centered Engineering, sensorLab
- 25 BFH, Institute for Human Centered Engineering, optoLab

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