

Biomedical Engineering Day

Virtual Event
University of Bern
May 7, 2021



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UNIVERSITÄT
BERN

Master's Program
Biomedical Engineering

Online Program

- 08.30 Welcome & Introduction**
Raphael Sznitman, ARTORG Center, University of Bern
Lukas Rohr, Engineering and Information Technology, Bern University of Applied Sciences
- 08.35 Biomedical Engineering Research & Education – An Update**
Philippe Zysset, ARTORG Center and MSc BME, University of Bern
- 08.45 The New Master's Program: Artificial Intelligence in Medicine**
Raphael Sznitman, ARTORG Center and MSc AIM, University of Bern
- 08.55 Presentation of Medical Technology Companies**
Lukas Eschbach, RMS Foundation
RMS Foundation - Activities and Range of Services
Jiri Nohava, Anton Paar Switzerland SA and Anton Paar TriTec
Surface Mechanical Properties of Biomaterials: from Cartilage to Ceramic Layers
Anja Reischmann, CAscination AG
Image-Guided Treatments for Cancer Patients and Patients with Hearing Disorders
Ricard Delgado Gonzalo, CSEM
Digital Health @ CSEM - Cooperative Sensor for Fetal Monitoring
Guillaume Du Pasquier, DomoSafety SA
The Future of Digital Health in Home Care
Carlos Ciller, RetinAI Medical AG
RetinAI - Accelerating Clinical Diagnostics, Research and Pharmaceutical Workflows
Beat Linder, Ziemer Ophthalmic Systems AG
Ziemer Ophthalmic Systems AG – Solutions for Better Vision
Janick Stucki, AlveoliX AG
Lung-on-Chip Technology for Improved Medicine Development
- 9.35 Bio Break / Visit Medtech Companies and Research Groups**
Meet with representatives of Medtech companies and research groups of the University of Bern, the Bern University Hospital (Inselspital), the Bern University of Applied Sciences and sitem-school at their virtual booths in [Gather City](#).
The coffee break will be open until 11.15 am.

- 10.35 BME Club Awards (Alumni BME Master)**
Best Master Thesis Abstract (rank 1, 2 and 3)
- 10.45 Award Presentation**
RMS Award for the Best Master's Student (GPA)
Beat Gasser, RMS Foundation and **Adrian Ruckli**, BME alumnus
Best Master Thesis Award (Innovation) (sponsored by Swiss Engineering)
Guiditta Thoma, BME alumna, University of Bern
Lung-Alveoli-on-Chip: Mechanical Characterization of a New Biological Membrane
Best Master Thesis Award (Basic Science) (sponsored by Swiss Engineering)
Maxime Chiarelli, BME alumnus, University of Bern
Estimation of the Energy Loss through Turbulence in an Aortic Stenosis Model Using Backlight Particle Tracking Velocimetry in a Silicone Ascending Aorta Phantom
Best PhD Thesis Award (sponsored by CCMT)
Serife Kucur, ARTORG Center, University of Bern
Exploration and Exploitation of Visual Fields: from Acquisition to Prediction of Glaucoma
- 11.35 My Thesis in 180 Seconds**
Competition for Master's and PhD students from the ARTORG Center
Fei Wu, ARTORG Center, University of Bern
Raphael Rätz, ARTORG Center, University of Bern
- 11.45 Live Surgery**
Gregor Kocher, Department of Thoracic Surgery, University Hospital Bern (Inselspital)
Moderator: **Patrick Dorn**, Department of Thoracic Surgery, University Hospital Bern (Inselspital)
- 12.45 Closing Remarks**