

[MEET THE EXPERT]

IMPLANTS

Materials and Surface Technology for Implants

[MEET THE EXPERT] Implants is taking place for the twelfth time in 2022 and is the well-known event for the implant industry in Europe. The proven concept of this one-day conference is designed equally for manufacturers of implants, suppliers and service providers, as well as for universities and institutes. The program includes keynote lectures, short presentations, a tabletop exhibition and possibilities for discussions and networking. We invite you to register or to book a table at the exhibition.

Thursday, 8th September 2022

Venue
FHNW Campus MuttENZ
Hofackerstrasse 30
4132 MuttENZ / Switzerland

Information and registration

www.rms-foundation.ch/meet

Main organizer



Testing · Research · Consulting

www.rms-foundation.ch

Registration / Fees

Please register until 30th August 2022 at:
www.rms-foundation.ch/meet

- Regular participant: 400 CHF + VAT
- Student: 150 CHF + VAT
full time students without employment
- Exhibitor: CHF 1000 excl. VAT; includes the registration fee for one person

The fee for registration cancellation up to 14 days before the event is CHF 50.- No refund will be given for cancellations made less than 14 days before the event, though the registrant may transfer the ticket to another person to attend as a replacement.

Tabletop Exhibition

Spaces are available for exhibitors at the tabletop exhibition (CHF 1000 excl. VAT; includes the registration fee for one person). Tables can be booked using the form for [conference registration](#).

Program Committee

- Dr. Lukas Eschbach, RMS Foundation
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- Dr. Simon Berner, Medicoat AG
- Francisco Faoro, Institut Straumann AG
- PD Dr. Christiane Jung, KKS Ultraschall AG
- Dr. Martin Stöckli, inspire AG
- Prof. Dr. Michael de Wild, FHNW

Administration

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Sponsors



Partner



Program, Thursday 8th September 2022

08:30	Registration / Welcome Coffee
09:00-09:15	Welcome message
Session 1 Chairperson: Lukas Eschbach	
09:15-09:45	Keynote 1: Prof. Dr. Konrad Wegener, Inst. f. Werkzeugmaschinen, ETHZ, CH: <i>AI for Autonomy in Manufacturing</i>
09:45-10:30	Flash Presentations Exhibitors and Posters (1 min. each)
10:30-11:00	Break (Exhibition and Poster)
Session 2: Additive Manufacturing Chairperson: Michael de Wild	
11:00-11:30	Keynote 2: PD Dr. med. et med. dent. Florian M. Thieringer, University Hospital Basel, CH <i>3D-Printed PEEK implants: clinical needs & point of care production</i>
11:30-11:50	Jürgen Wuttig, Sauber Technologies AG, Hinwil, CH: <i>Microstructure of HIPped SLM-Ti-6Al-4V</i>
11:50-12:10	Dr. Juliane Thielsch, Fraunhofer Institute for Machine Tools and Forming Technology IWU, Dresden, DE: <i>Implants with complex open-pored cellular structure additively manufactured by LPBF using geometry adapted slicing functions</i>
12:10-12:30	Dr. Dmitrii Komissarenko, EMPA, Dübendorf, CH: <i>Additive manufacturing of zirconia canine elbow joint implants via digital light processing</i>
12:30-13:50	Lunch (Exhibition and Poster)
Session 3: Materials and Surfaces Chairperson: Simon Berner	
13:50-14:10	Dr. Dieter Ulrich, Helbling Technik, Liebefeld-Bern, CH: <i>Wireless Power Transfer for "Smart" Implants</i>
14:10-14:30	Dr. Samuel Rey-Mermet, HES-SO Valais, Sion, CH: <i>Additively manufactured Nitinol stent: surface finish and properties</i>
14:30-14:50	Dr. Oksana Banakh, Haute Ecole Arc, La Chaux-de-Fonds, CH: <i>Micro-arc anodized magnesium AZ31 alloy: towards application in veterinary implants</i>
14:50-15:10	Harald Holeczek, Medicoat AG, Mägenwil, CH: <i>Anti-bacterial coating for implant surfaces based on electrochemically-formed calcium hydroxide</i>
15:10-15:40	Break (Exhibition and Poster)
Session 4: Clinical and Regulatory Topics Chairperson: Christiane Jung	
15:40-16:10	Keynote 3: PD Dr. med. Dr. phil. Dipl.-Ing. Andrej M. Nowakowski, Kantonsspital Baselland, CH: <i>Challenges in revision total hip replacement and prosthetic joint infections</i>
16:10-16:30	Christoph Sprecher, AO Research Institute, Davos, CH: <i>Artificially induced peri-implant inflammation around mechanically loaded Zirconia and Titanium implants</i>
16:30-16:50	Helen Yau, Koln 3D Switzerland, Geneva, CH: <i>Clinical Applications of Patient-Specific Implants: How to Avoid Reinventing the Wheel</i>
16:50-17:10	Sanja Savic, OFI Technologie & Innovation GmbH, Vienna, AT: <i>Challenges and in-vitro solutions for the biocompatibility assessment with chemical characterization based on ISO 10993</i>
17:10-17:30	Dr. Hans Schmotzer, SigmaRC GmbH, Cham, CH: <i>In vitro testing of degradable magnesium implants – Avoiding the pitfalls</i>
17:30-17:40	Roundup

Poster Session

- 1 *Supercritical CO₂ machining of titanium - a potential game changer*
Erik Poulsen, GF Machining Solutions, Biel, Switzerland
 - 2 *Direct Part Laser Marking in the Medtech Industry – How to make UDI-Code Marking safe and compliant*
Christian Söhner, FOBA Laser Marking + Engraving | ALLTEC Angewandte Laserlicht Technologie GmbH, Selmsdorf, Germany
 - 3 *In-silico comparison of topology-optimized acromion Levy type II implants*
Janick Zehnder, FHNW, Muttenz, Switzerland
 - 4 *Duplex technology to improve osteointegration of PEEK implants*
Sophie Farine, Haute Ecole Arc, La Chaux-de-Fonds, Switzerland
 - 5 *Comparative study of particle loads in peri-implant soft tissue over osteosynthesis plates made of CFR-PEEK and titanium*
Christoph Sprecher, AO Research Institute, Davos, Switzerland
 - 6 *In-silico implant validation: Establishing a reliable computational bone-implant model*
Michaela Maintz, FHNW, Muttenz, Switzerland
 - 7 *In-vitro validation of operational strength of impact-loaded surgical instruments by means of an automated pendulum impact tester*
Matthias Breising, IMA Materialforschung und Anwendungstechnik GmbH, Dresden, Germany
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