

# [MEET THE EXPERT]

## IMPLANTS

In collaboration with  
**ORTHOMANUFACTURE 2021**

## Materials and Surface Technology for Implants

[MEET THE EXPERT] Implants is organized in cooperation with the event **ORTHOMANUFACTURE** in 2021 and will combine two well-known congresses for the implant industry in Europe. This year, the concept of these events is an online congress that 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 and possibilities for online discussions with the authors and presenters. During the breakout sessions, all exhibitors will be accessible in their individual room for online discussions. We invite you to register now as a participant.

**Wed 28<sup>th</sup> April 2021**  
**Thu 29<sup>th</sup> April 2021**

Venue  
Online presentations and Q&A sessions

### Information and registration

[www.rms-foundation.ch/meet](http://www.rms-foundation.ch/meet)

Main organizer



Testing · Research · Consulting

[www.rms-foundation.ch](http://www.rms-foundation.ch)

### Registration (deadline expanded!)

Please register until **21<sup>st</sup> April 2021** at:

[www.rms-foundation.ch/meet](http://www.rms-foundation.ch/meet)

- Regular participant:  
150 CHF + VAT

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.

### Program Committee

- Dr. Lukas Eschbach, RMS Foundation  
[Lukas.Eschbach@rms-foundation.ch](mailto:Lukas.Eschbach@rms-foundation.ch)
- Dr. Simon Berner, Medicoat AG
- Francisco Faoro, Institut Straumann AG
- PD Dr. habil. Christiane Jung, KKS Ultraschall AG
- Dr. Martin Stöckli, inspire AG
- Prof. Dr. Michael de Wild, FHNW

### Administration

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# [MEET THE EXPERT]

## IMPLANTS

### Conference Program, Wednesday 28<sup>th</sup> April 2021

<b>08:00 Welcome</b>	
<b>08:15 – 08:45 Session 1: Overview</b> Chairperson: Dr. Lukas Eschbach	
<b>08:15</b>	Keynote 1: Dr. med. Daniel de Menezes, Spitalzentrum Biel/Bienne, Switzerland: <i>Improving efficiency and results of prosthetic joint surgery: Role of technology and materials from the perspective of a surgeon</i>
<b>08:45 – 09:45 Poster and Exhibition (Breakout Session) / Virtual Coffee Break</b>	
<b>09:45 – 11:30 Session 2: Materials and Surfaces</b> Chairperson: Prof. Dr. Michael de Wild	
<b>09:45</b>	Keynote 2: Beat Lechmann, DePuy Synthes, Zuchwil, Switzerland: <i>Trends related to materials, surfaces and technologies</i>
<b>10:15</b>	Prof. Dr. med. dent. Dr. rer. nat. Jens Fischer, University Center for Dental Medicine Basel, Switzerland: <i>What endosseous surface is appropriate for dental zirconia implants?</i>
<b>10:35</b>	Prof. Dr. Marta Monjo, University of Balearic Islands, Palma de Mallorca, Spain: <i>Multifunctional properties of Quercitrin coated porous Ti-6Al-4V implants for orthopaedic applications</i>
<b>10:55</b>	Dr. Dirk Hegemann, Empa, St. Gallen, Switzerland: <i>Rapid active, non-releasing antibacterial coatings based on Ag nano islets deposited on TiO<sub>2</sub> films</i>
<b>11:15</b>	Session discussion, Q&A roundup
<b>11:30 – 13:30 Lunch Break / Virtual Meetings</b>	
<b>13:30 – 15:40 Session 3: Medical Device Regulation (MDR)</b> Chairperson: Francisco Faoro	
<b>13:30</b>	Keynote 3: Shokoufeh Khodabandeh, Institut Straumann AG, Basel, Switzerland: <i>Medical Device Regulations – MedTech in EU beyond May 2020</i>
<b>14:00</b>	Dr. Marta Swierczynska, SFL Regulatory Affairs & Scientific Communication GmbH, Basel, Switzerland: <i>Challenges for implants under the new MDR</i>
<b>14:20</b>	Stefano Adami, Confinis AG, Sursee, Switzerland: <i>Additive Manufacturing of custom made and mass production of implants – Overview of regulatory and quality challenges posed by the MDR</i>
<b>14:40</b>	Dr. Ulrich Hofer, Integrated Scientific Services ISS AG, Biel, Switzerland: <i>Lean PMCF studies using real-world data</i>
<b>15:00</b>	Keynote 4: Dr. Richard Curno, Medidee Services SA, Lausanne, Switzerland: <i>Lessons learned from recalls</i>
<b>15:30</b>	Session discussion, Q&A roundup
<b>15:40 – 16:40 Poster and Exhibition (Breakout Session)</b>	

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## IMPLANTS

### Conference Program, Thursday 29<sup>th</sup> April 2021

#### 08:00 Welcome

**08:00 – 09:30 Session 4: Smart Devices & Analytics** Chairperson: Dr. Simon Berner

08:00 Keynote 5: Dr. Roman Dittmar, Institut Straumann AG, Basel, Switzerland:  
*Smart devices – Implants 4.0*

08:30 Ana Isabel Costa, Center of MicroElectroMechanical Systems, University of Minho, Guimarães, Portugal:  
*Highly porous Ti as bone substitute: triboelectrochemical characterization of highly porous Ti under fretting-corrosion conditions*

08:50 Dr. Olivia Kettner, Anton Paar GmbH, Graz, Austria:  
*Zeta potential of implant surfaces - correlation with hydrophilicity and porosity*

09:10 Session discussion, Q&A roundup

#### 09:30 – 10:30 Poster and Exhibition (Breakout Session) / Virtual Coffee Break

**10:30 – 12:30 Session 5: Additive Manufacturing** Chairperson: Dr. Martin Stöckli

10:30 Keynote 6: Daniel Seiler, Hochschule für Life Sciences FHNW, Muttensz, Switzerland:  
*Trends in medical AM*

11:00 Jean-Jacques Fouchet, Z3DLAB SAS, Montmagny, France:  
*ZTi-Med® : a potential replacement for Titanium in medical*

11:20 Rashid Tikhilov, Vreden Russian Research Institute of traumatology and orthopedic, S-Petersburg, Russia:  
*The experience of using custom-made implants for gross acetabular defects*

11:40 Donatien Campion, 3D Medlab, Marignane, France:  
*4D Printing of expandable Spinal Cages: Development and applications*

12:00 Session discussion, Q&A roundup

#### 12:15 – 14:00 Lunch Break/ Virtual Meetings

**14:00 – 16:30 Session 6: Cleaning** Chairperson: PD Dr. habil. Christiane Jung

14:00 Keynote 7: Peter Huonker, Früh Verpackungstechnik AG, Fehraltorf, Switzerland:  
*Bacteria and sterilization: A short overview on common sterilization procedures*

14:30 Lise Vanderkelen, Nelson Labs NV, Heverlee, Belgium:  
*Don't forget to think about family grouping before doing reprocessing validations of medical devices and instruments!*

14:50 Elena Stübi, RMS Foundation, Bettlach, Switzerland:  
*Cleaning validation for instrument reprocessing: normative background and the test methods*

15:10 Dr. Sc. Marco Furlan, eCO2, Taverne, Switzerland:  
*A novel post-treatment process of medical and pharmaceutical material using scCO2*

15:30 Keynote 8: Ali Madani, AVICENNE, Paris, France:  
*Orthopedic market perspectives - Orthopedic contract manufacturing markets*

16:00 Session discussion, Q&A roundup

**16:15 Meeting End**

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### Poster Session

- 1 *Biodegradable magnesium implants: how to improve the surface properties?*  
Dr. Oksana Banakh, Haute Ecole Arc, La Chaux-de-Fonds, Switzerland
- 2 *Multilayer based on parylene and an oxide deposited by ALD for the packaging of medical devices*  
Prof. David Grange / Sophie Farine-Brunner, Haute Ecole Arc, La Chaux-de-Fonds, Switzerland
- 3 *MRI compatibility of additive manufactured auxetic NiTi parts*  
Felix Schuler, FHNW, Muttenz, Switzerland
- 4 *Protection of electronics for reprocessable surgical devices*  
Grégory Schaffner, Turck duotec SA, Delémont, Switzerland
- 5 *Cleaning processes in medical technology*  
Fabio Cordaro, Amsonic AG, Biel, Switzerland
- 6 *High-accurate form and roughness measurement of orthopedic implants using a new optical micro-coordinate measurement device*  
Robert Winkler, Alicona Imaging GmbH, Raaba/Graz, Austria
- 7 *Surface properties and fatigue resistance of AM-structures*  
Dr. sc. ETH Zürich Roman Heuberger, RMS Foundation, Bettlach, Switzerland
- 8 *Accelerated tests for lifetime prediction of interfaces and interlayers with respect to crevice and fatigue corrosion in body fluid*  
Dr. Roland Hauert, Empa, Dübendorf, Switzerland
- 9 *Implants surface modification: a reliable biomimetic approach*  
Dr. Agnese Carino, Medicoat AG, Mägenwil, Switzerland
- 10 *ICP-MS trace element analysis of calcium phosphate bone substitute materials according to USP 232/233 guidelines*  
Dr. Ronny Wirz, RMS Foundation, Bettlach, Switzerland
- 11 *Laser additive manufactured hemi-thoracic cage custom implant in Ti6Al4V*  
Pierfrancesco Robotti, Lincotek, Trento, Italy
- 12 *Protective pink coating for dental implant applications*  
Noora K. Manninen, Oerlikon Surface Solutions AG, Balzers, Liechtenstein
- 13 *Cleanliness of orthopaedic implants according to ISO 19227: differences and gaps compared to ISO 10993-18*  
Dr. Ronny Wirz, RMS Foundation, Bettlach, Switzerland
- 14 *Dry mechanical-electrochemical polishing of titanium*  
Sven Simeunovic, FHNW, Muttenz, Switzerland
- 15 *Adaptive density minimal surface structures for 3D printed medical implants*  
Niklaus Arn, Spherene AG, Zürich, Switzerland

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