**SUMMERY**

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**WELCOME**

**DEAR COLLEAGUES,**

In May 2016 we were happy to host the 1st International Conference on 3D Printing in Medicine, which was successful and inspiring. It has led to many discussions and identified new challenging themes.

Such an innovative topic requires the personal and interdisciplinary communication, which can only happen at a conference.

Consequently the 2nd International Conference on 3D Printing in Medicine is again planned for the year 2017 in the Electoral Palace in Mainz.

We would like to continue the successful interdisciplinary communication between basic and clinical application. In addition, there will be coherent blocks, that deal with specific clinical applications.

One block deals with bioprinting and clinical applications in blood vessel surgery. A second block will focus on the orthopedic applications in the field of individual joint replacements. In the craniomaxillofacial surgical block applications are discussed starting the basic field of 3D printed bone substitutes to the clinical application of individual stents and plates. A fourth block deals with the field of dentistry and aims at the expanded three-dimensional workflow.

We would like to invite you to be present in Mainz for the forthcoming 2nd International Conference on 3D Printing in Medicine and exchange experiences between basic research and clinics. We will enjoy an exciting industry exhibition in the foyer of the Electoral Palace in Mainz and maintain social interaction with colleagues in the old town of Mainz. Moreover we are delighted to have Osteology Foundation as our Collaboration Partner.

Prof. Dr. W. E. G. Müller
Physiologic Chemistry

Prof. Dr. B. Dorweiler
Vascular Surgery

Prof. Dr. B. Al-Nawas
Oral-Maxillofacial Surgery

Prof. Dr. P. Drees
Orthopedic Surgery
DEAR PARTICIPANTS,

After the exceptional success of the first International Conference of 3D Printing in Medicine, we come together in Mainz again for the second world meeting. New technologies related to 3D printing no longer solely impact the scientific and business communities; they have also become a reality in the daily lives of everyday citizens. It is with great pleasure that I again assume patronage of the conference and extend a warm welcome to you.

3D printing technology is a technical revolution. The growing range of application for 3D printing already today opens up possibilities that until recently were still considered a thing of fiction. In the field of medicine, custom-fit transplants such as jaw-bones, teeth and hip-joints have been made possible by 3D printing. These are manufactured using different materials, such as plastic, ceramic, or metal. 3D printing technologies may, for example, in the coming years make possible the production of 3D-printed hearts true to the originals that can be used to rehearse complicated procedures on prior to real-life intervention. This translates into clear advantages for patients. A look at the topics of this year’s conference shows that even more exciting opportunities are yet to come. Featured amongst those topics is the printing of everything from living cells to, eventually, entire organs.

These revolutionary developments, which are made possible by 3D printing technologies, present many new challenges in different areas of medicine, science and business. Efficient management of these challenges will only be possible through close-knit cooperation in the area of research and development, starting with basic research, on to applied research and through to market entry. To this purpose, not only will it be essential to network both horizontally and vertically, but also to take into account and discuss the regulatory framework.

3D printing offers great growth potential for the scientific and economic location, and above all, great opportunities for society. For these reasons, the state of Rhineland-Palatinate has for years been supportive of these developments. I am therefore pleased that after the success of last year’s conference, the 2nd International Conference on 3D Printing in Medicine is once again taking place in Mainz.

I wish you all, dear participants of this conference, an interesting event complete with exciting lectures and discussions!

Malu Dreyer
Minister President of Rhineland-Palatinate
GENERAL INFORMATION

CHAIRMEN
Bilal Al-Nawas          Michael Gelinsky          Tobias Nowak
Luiz E. Bertassoni       Daniel Kelly           Ibrahim Ozbolat
Sylvain Catros           Saahil Mehta           Mika Salmi
Bernhard Dorweiler       Vladimir Mironov      Simon Weidert
Adam W. Feinberg

GENERAL INFORMATION

Congress President
Prof. Dr. Dr. Bilal Al-Nawas
University Medical Center of the Johannes Gutenberg University Mainz
Langenbeckstr. 1  |  55131 Mainz, Germany
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Email: biomatics@uni-mainz.de  |  www.unimedizin-mainz.de/biomatics

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Langenbeckstr. 1  |  55131 Mainz, Germany
Tel. +49 (0)6131 17-5815  |  Fax +49 (0)6131 17-3462
Email: martin.heller@uni-mainz.de

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boeld communication GmbH
Adlzreiterstraße 29  |  80337 Munich, Germany
Tel. +49 (0)89 18 90 46-0  |  Fax +49 (0)89 18 90 46-16
Email: congress@bb-mc.com  |  www.bb-mc.com

Congress Venue
Electoral Palace in Mainz
Diether-von-Isenburg-Straße  |  55116 Mainz  |  Germany

FACULTY

INTERNATIONAL GUEST FACULTY

Bilal Al-Nawas  
Mainz, Germany

Luiz E. Bertassoni  
Sydney, Australia

Andreas Blaeser  
Aachen, Germany

Kirsten Borchers  
Stuttgart, Germany

Jason Burdick  
Philadelphia, USA

Sylvain Catros  
Bordeaux, France

Bernhard Dorweiler  
Mainz, Germany

Adam W. Feinberg  
Pittsburgh, USA

John Geibel  
New Haven, USA

Michael Gelinsky  
Dresden, Germany

Ahmed Ghazy  
Mainz, Germany

Ben Jastram  
Berlin, Germany

Blake Johnson  
Blacksburg, USA

Daniel Kelly  
Dublin, Ireland

Rodrigo Lozano  
Stockholm, Sweden

Saahil Mehta  
London, UK

Jordan Miller  
Houston, USA

Vladimir Mironov  
Moscow, Russia

Werner E. G. Müller  
Mainz, Germany

Ibrahim Ozbolat  
Iowa City, USA

Mika Salmi  
Helsinki, Finland

Ralf Sodian  
Lahr/Baden, Munich, Germany

Patrick Thayer  
Gothenburg, Sweden

James Yoo  
Winston-Salem, USA
### Thursday | May 18, 2017

20:00 - 21:15 Uhr  
*Nachtvorlesung: „Perspektiven des 3D-Druckes für die Patientenversorgung“*  
Grußwort durch das Ministerium für Wirtschaft, Verkehr, Landwirtschaft und Weinbau Rheinland-Pfalz  
Referenten: Christian-Friedrich Vahl, Bilal Al-Nawas, Bernhard Dorweiler, Ahmed Ghazy  
(Mainz, Germany)  
Veranstaltungsort: Gutenberg-Museum | Großer Vortragssaal | Liebfrauenstraße 5 | 55116 Mainz

### Friday | May 19, 2017

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<tr>
<td>8:00 am</td>
<td>Registration</td>
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<tr>
<td>8:45 am</td>
<td>Konrad Wolf (Minister for Science, Further Education and Cultural Affairs of Rhineland-Palatinate)</td>
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<tr>
<td>8:55 am</td>
<td>Ulrich Förstermann (Chief Scientific Officer and Dean University Medical Center Mainz, Germany)</td>
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<tr>
<td>9:05 am</td>
<td>Bilal Al-Nawas (Congress President and Spokesman BiomaTICS, Germany)</td>
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<tr>
<td>9:15 am</td>
<td><em>Intelligent Materials and Scaffolds in Medical 3D Printing</em></td>
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<td>9:15 am</td>
<td>Chair: M. Gelinsky; I. Ozbolat</td>
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<td>9:15 am</td>
<td><em>Extrusion-based Printing of Hydrogel Bioinks</em></td>
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<td>9:15 am</td>
<td>Jason Burdick (Philadelphia, PA-USA)</td>
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<tr>
<td>9:35 am</td>
<td><em>Bioprinting for bone and joint regeneration</em></td>
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<tr>
<td>9:35 am</td>
<td>Daniel J. Kelly (Dublin, Ireland)</td>
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<td>9:55 am</td>
<td><em>3D printing of PEEK using FFF-Technology</em></td>
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<td>9:55 am</td>
<td>Uwe Popp (Karlsruhe, Germany)</td>
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<tr>
<td>10:05 am</td>
<td><em>Biodegradable Patient Specific CMF Implants made from a Polylactide/Calcium Carbonate Composite by Selective Laser Sintering</em></td>
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<td>10:05 am</td>
<td>Christoph Gayer (Aachen, Germany)</td>
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<tr>
<td>10:15 am</td>
<td><em>Influence of Slicer software on transformation of virtual data into porous microstructures</em></td>
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<td>10:15 am</td>
<td>Vinzenz Nienhaus (Darmstadt, Germany)</td>
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<tr>
<td>10:40 am</td>
<td>Coffee Break</td>
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<tr>
<td>11:10 am</td>
<td><em>Biomimetic Ceramic Scaffolds with Improved Mechanical Stability Fabricated by Ceramic NanoInk Enhanced 3D-printing</em></td>
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<tr>
<td>11:10 am</td>
<td>Nina Matter (Muttenz, Switzerland)</td>
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<tr>
<td>11:20 am</td>
<td><em>Simulation-based additive manufacturing of composite structures for bone regeneration</em></td>
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<td>11:20 am</td>
<td>Ronny Brünler (Dresden, Germany)</td>
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<tr>
<td>11:30 am</td>
<td><em>Complex ceramic structures for biomedical application</em></td>
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<td>11:30 am</td>
<td>Uwe Scheithauer (Dresden, Germany)</td>
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<td>11:40 am</td>
<td><em>Adaption of Quality by Design for custom 3D printed Bone Implants</em></td>
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<td>11:40 am</td>
<td>Daniel Martinez (Nathan, Australia)</td>
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<tr>
<td>12:00 pm</td>
<td><em>Additive manufacturing for medical applications</em></td>
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<tr>
<td>12:00 pm</td>
<td>Britta Schramm (Paderborn, Germany)</td>
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<tr>
<td>12:10 pm</td>
<td>Lunch Break</td>
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<td>12:10 pm - 1:10 pm</td>
<td>Lunchsymposium</td>
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<td></td>
<td>Materialise Symposium: Medical 3D Printing - Added Value or only Extra Effort? Florian M. Thieringer (Basel, Switzerland)</td>
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<td>1:10 pm - 3:25 pm</td>
<td>Bioprinting of Soft Tissues in 3D Printing</td>
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<td>Chair: S. Catros; A.W. Feinberg</td>
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<td>1:00 pm - 1:30 pm</td>
<td>3D Printing of Vascularized Tissue Constructs and Reconfigurable Hydrogel Microfluidic Devices</td>
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<tr>
<td>1:30 pm - 1:50 pm</td>
<td>3D Bioprinting of soft tissue with novel bioinks and stem cells</td>
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<td>Patrick Thayer - Gothenburg, Sweden</td>
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<td>1:50 pm - 2:10 pm</td>
<td>3D printing in reconstructive breast surgery</td>
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<td>Saahil Mehta (London, UK)</td>
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<td>2:10 pm - 2:30 pm</td>
<td>Organ printing: from mouse thyroid gland to human kidney</td>
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<td>Vladimir Mironov (Moscow, Russia)</td>
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<tr>
<td>2:30 pm - 2:50 pm</td>
<td>Bioprinting Technology for Biomedical Applications</td>
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<td>James Yoo (Winston-Salem, NC-USA)</td>
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<tr>
<td>2:50 pm - 3:10 pm</td>
<td>Polysaccharide-based Hydrogels and Nanocomposites as Building Blocks for 3D-Bioprinting</td>
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<tr>
<td>3:10 pm - 3:25 pm</td>
<td>15 min Discussion</td>
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<tr>
<td>3:25 pm - 3:55 pm</td>
<td>Coffee Break</td>
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<tr>
<td>3:55 pm - 6:20 pm</td>
<td>Blood Vessels and Vascular Constructs</td>
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<td>Chair: B. Dorweiler; D. Kelly; M. Salmi</td>
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<tr>
<td>3:55 pm - 4:15 pm</td>
<td>New Insights in 3D Bioprinting from Vessels to Intestines</td>
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<td>John P. Geibel (New Haven, CT-USA)</td>
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<tr>
<td>4:15 pm - 4:35 pm</td>
<td>3D-Printing in Cardiovascular Surgery: 3D-Echo, 3D-Print and Virtual Reality</td>
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<td>4:35 pm - 4:55 pm</td>
<td>Rebuilding the Heart by 3D Bioprinting of the Extracellular Matrix</td>
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<td>Adam W. Feinberg (Pittsburgh, PA-USA)</td>
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<tr>
<td>4:55 pm - 5:15 pm</td>
<td>3D printing of vascularized tissues for in vitro and in vivo studies</td>
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<td>Jordan Miller (Houston, TX-USA)</td>
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<tr>
<td>5:15 pm - 5:35 pm</td>
<td>A New Approach for the Manufacturing of Customized Vital Human Heart Valve Prostheses by Combining Rapid Manufacturing and Tissue Engineering Technologies</td>
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<tr>
<td>5:35 pm - 5:55 pm</td>
<td>Development and evaluation of 3D-printed models of human aorta for training in endovascular surgery</td>
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PROGRAM | MAY 19, 2017

5:55 pm - 6:05 pm
3D Printing in Healthcare and Dental – Application areas and added values
Stephan Winterlik (Rheinmuenster, Germany)

6:05 pm - 6:20 pm
15 min Discussion

7:30 pm - 8:30 pm
City Tour with english speaking guide
Meeting point: Hotel Hilton Mainz - Lobby | Rheinstraße 68 | 55116 Mainz

8:30 pm
Social Evening at „Eisgrub Bräu
Venue: Weissliliengasse 1a | 55116 Mainz

PROGRAM | MAY 20, 2017

Saturday | May 20, 2017

8:00 am - 8:15 am
Registration

8:15 am - 8:30 am
Bilal Al-Nawas
(Congress President and Spokesman BiomaTiCS, Germany)

8:30 am - 10:25 am
OMF and Dentistry (Osteology Session)
Chair: L. E. Bertassoni; W.E.G. Müller

8:30 am - 8:50 am
In-situ Bioprinting for Craniofacial Reconstruction
Ibrahim T. Ozbolat (Iowa City, PA-USA)

8:50 am - 9:10 am
Biodegradable implants and tissue equivalents by means of extrusion-based 3D plotting
Michael Gelinsky (Dresden, Germany)

9:10 am - 9:30 am
Bone Tissue Engineering Using Layer-by-Layer Bioassembly of Cellularized PLA Scaffold
Sylvain Catros (Bordeaux, France)

9:30 am - 9:40 am
3D-Printed Patient Specific PEEK Implants in the OR – SciFi meets Reality
Florian Thieringer (Basel, Switzerland)

9:40 am - 9:50 am
Effect of mandibular torsion during intraoral scanning - an in-vivo-evaluation
Susanne Wriedt (Mainz, Germany)

9:50 am - 10:00 am
Lithography-based ceramic manufacturing for the production of bioresorbable bone replacements
Daniel Bomze (Vienna, Austria)
10:00 am - 10:10 am
Peculiarities of patient-specific TMJ endoprosthesis design and quality validation
Milda Jokymaityte (Kaunas, Lithuania)

10:10 am - 10:25 am
15 min Discussion

10:25 am - 10:55 am | Coffee Break | Postersession

10:55 am - 2:55 pm
Orthopedic Applications
Chair: T. Nowak; S. Mehta

10:55 am - 11:15 am
Development of bioinks for printing of zonal cartilage tissue models
Kirsten Borchers (Stuttgart, Germany)

11:15 am - 11:35 am
3D models and the digital workflow of 3D printing in medicine
Mika Salmi (Helsinki, Finland)

11:35 am - 11:55 am
Tissue ink: Innovative developments in the field of physiological biomaterials (metabolic fuel)
Werner E. G. Müller (Mainz, Germany)

11:55 am - 12:05 pm
LaserCusing - From diagnosis to spinal implants
Stefano Caselli (Mirandola, Italy)

12:05 pm - 12:15 pm
Patient-specific scaphoid replacement out of the 3D-printer - Idea and first pre-clinical results
Philipp Honigmann (Liestal, Switzerland)

12:15 pm - 12:25 pm
Automated construction of orthopedic tools using 3D-scanning and 3D-printing
Waldemar Kiss (Mainz, Germany)

12:25 pm - 12:40 pm
15 min Discussion

12:40 pm - 1:40 pm | Lunch Break

1:40 pm - 1:50 pm
Creation of a capillary-like network with a defined architecture by Laser-Assisted Bioprinting for bone regeneration
Sylvain Catros (Bordeaux, France)

1:50 pm - 2:00 pm
Custom design and manufacturing of total ankle replacements: in-silico and in-vitro validation
Claudio Belvedere (Bologna, Italy)

2:00 pm - 2:10 pm
Bone Sialoprotein-coated 3D-printed Hydroxyapatite Promotes Bone Healing in vivo
Andreas Baranowski (Mainz, Germany)

2:10 pm - 2:20 pm
Patient Specific Cervical Orthesis Generated by CT Data and laser sintering
Simon Weidert (Munich, Germany)

2:20 pm - 2:30 pm
An open source package to efficiently treat acetabular fractures with 3D printing
Simon Weidert (Munich, Germany)

2:30 pm - 2:40 pm
3D Printing in Medical - An enabling Technology for „Mass“ Customization
Martin Bullermer (Munich, Germany)

2:40 pm - 2:55 pm
15 min Discussion

2:55 pm - 3:25 pm | Coffee Break
3:25 pm - 4:45 pm  
**Surgery and Neurosurgery**  
Chair: V. Mironov; Simon Weidert

- **3:25 pm - 3:45 pm**  
**Development and evaluation of 3D-printed models of human tracheobronchial system for training in flexible bronchoscopy**  
Ahmed Ghazy (Mainz, Germany)

- **3:45 pm - 4:05 pm**  
**3D Printed Anatomical Nerve Regeneration Pathways**  
Blake Johnson (Blacksburg, VA-USA)

- **4:05 pm - 4:25 pm**  
**3D Printing of Layered Brain-Like Structures**  
Rodrigo Lozano (Solna, Sweden)

- **4:25 pm - 4:35 pm**  
**From theory to Theatre using Additive Manufacturing – Medical Devices for Cardiac Surgeries**  
Alex Berry (London, United Kingdom)

- **4:35 pm - 4:45 pm**  
10 min Discussion

4:45 pm - 4:55 pm | Awards and final words

Bilal Al-Nawas  
(Congress President and Spokesman BiomaTiCS, Germany)

*Scientific program subject to change.*

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10:25 am - 10:55 am  
**Poster Session**

1. **Evaluation of Additive Manufacturing Technologies for Tissue Engineering Scaffolds**  
Mohammad Nauman Jalil (Wales, United Kingdom)

2. **3D image of bimaxillary casts connected by a vestibular scan**  
Susanne Wriedt (Mainz, Germany)  
Irene Schmidtmann, Mareike Niemann, Heinrich Wehrbein

3. **Digital 3D image of pairs of model casts: Accuracy of different fixation-methods**  
Susanne Wriedt (Mainz, Germany)  
Irene Schmidtmann, Lars Kesting, Heinrich Wehrbein

4. **Maxillary intraoral scan - In-vivo evaluation of scan quality**  
Susanne Wriedt (Mainz, Germany)  
Milena Katzorke, Irene Schmidtmann, Heinrich Wehrbein, Collin Jacobs

5. **Evaluation of 3D-printed BSP-coated bone substitutes in a rat femoral condyle defect model**  
Anja Klein (Mainz, Germany)  
Andreas Baranowski, Ulrike Ritz, Angelika Ackermann, Hermann Goetz, Pol M. Rommens, Alexander Hofmann

6. **Development of a composite material consisting of printed polylactide loaded with collagen I as bone substitute - an in-vitro study**  
Ulrike Ritz (Mainz, Germany)  
Rebekka Gerke, Hermann Götz, Pol Maria Rommens

7. **3D-printing of a regeneratively active PCL/CaPP composite scaffold for bone regeneration**  
Meik Neufurth (Mainz, Germany)  
Xiaohong Wang; Werner E.G. Müller
8. **Hydrogels as BioInks for 3D bioprinting: Properties and Application**
   Lukas Raddatz (Hanover, Germany)
   Carola Schmitz, Pia Gellermann, Antonina Lavrentieva, Iliyana Pepelanova, Sascha Beutel, Thomas Scheper

9. **Nanoparticulate drug depots for modulation of specific material-tissue interaction**
   Anna Watermann (Mainz, Germany)
   Sven Kurch, Wolfgang Tremel, Jürgen Brieger

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**SOCIAL EVENING AT „EISGRUB“ WITH CITY TOUR**

May 19, 2017  |  7:30 pm - 11:00 pm

7:30 pm - 8:30 pm
City Tour with english speaking guide
*Start at Hotel Hilton Mainz - Lobby | Rheinstraße 68 | 55116 Mainz*
Visit the beautiful city of Mainz. The tour will guide you to the social evening at the „Eisgrub“.

Price: 10.00 Euro

8:30 pm - 11:00 pm
Social Evening at „Eisgrub“
The Eisgrub in the upper city of Mainz is located below the citadel and has been used as a natural ice-house since 1872. The name is derived from the words Eis and Grube (ice and cavern). The entrance area of the building, initially used as barracks, houses since 1989 the brew-pub Eisgrub Bräu, currently the only brewery in Mainz.

Dress code: Casual

Food (3-course-menu) and beverages are included
Price: 45.00 Euro
The Osteology Foundation’s motto is “Linking Science with Practice in Regeneration”. The foundation was established in 2003 and its core activities include funding of research projects and organisation of national and international symposia throughout the world. In recent years, the Foundation has expanded its focus. Today, it also offers courses and textbooks specifically for researchers, as well as the online platform THE BOX, which connects practitioners and scientists in the field of oral tissue regeneration worldwide, and provides tools and information.

Allianz offers a wide range of insurance and fund products to over 85 million customers in more than 70 countries.

Insurance business
Our retail and corporate clients enjoy an extensive product selection in all insurance business lines, designed to protect them against any risks. We are the world’s number one property and casualty insurer and are among the top five companies in life and health insurance.

Most markets are served by local Allianz companies; in addition, there are also business areas with a global reach, for example the insurance of global corporate customers, credit insurance, assistance services and re-insurance.

Asset Management
As of December 31, 2015, with approximately 1,800 billion euros assets under management, we are one of the largest asset managers in the world managing assets with active investment strategies.

We run the Asset Management business out of two distinct investment management businesses, Allianz Global Investors (AllianzGI) and PIMCO. Both units operate under Allianz Asset Management (AAM).

Particular strongholds include the United States, Germany, France, Italy, the United Kingdom and the Asia-Pacific region. As of December 31, 2015, Allianz managed 1,276 billion euros of third-party assets.

3D Systems’ product line includes high-end 3D printing services for metallic implants and instrumentation used for orthopedic, spinal, CMF, dental and veterinary applications. Medical device companies rely on our expertise and Direct Metal Printing (DMP) capabilities to guide them from prototyping and trial series to large volume manufacturing.

As DMP bypasses multiple metalworking operations, tooling and assembly costs are reduced drastically. The lead time typically shifts from months to weeks compared to traditional technologies. The economic advantage of shorter time-to-market for new medical devices allows for reducing the stock levels of devices at distributors and hospitals.

3D Systems pioneered healthcare solutions that enhance quality-of-life through the use of 3D printing technologies and has been at the forefront of surgical planning and personalized medical solutions for almost two decades. Our products and services meet the needs of customers ranging from medical device OEMs and teaching hospitals to individual healthcare professionals. We are dedicated to help doctors train for, plan, practice and perform complex medical procedures and achieve better patient outcomes.

Arcam provides a cost-efficient Additive Manufacturing solution for production of metal components. The technology offers freedom in design combined with excellent material properties and high productivity.

Arcam’s market is global with customers mainly in the orthopedic implant and aerospace industries. The company was founded in 1997 and is listed on NASDAQ OMX Stockholm, Sweden. Head office and production facilities are located in Malmö, Sweden. Support offices are located worldwide.

Arcam is an innovative partner for manufacturing in the orthopedic implant and aerospace industries, where we deliver customer value through our competence and solution orientation.

Since the birth of Arcam, our vision has remained the same: to revolutionize the art of manufacturing complex parts. Arcam offers a complete portfolio of EBM machines, auxiliary equipment, software, metal powders, service and training to support our customers. The patent portfolio consists of 200 patents/patent applications belonging to 56 different registered patent families.
BiomaTiCS

The research focus program BiomaTiCS of the University Medical Center Mainz works as an interdisciplinary network of materials scientists and medical researchers, who are interested in understanding and modulating the complex interactions between biological systems and artificial as well as biogenic materials. Despite of advancements in material design and surgical techniques, medical device-related clinical problems like inflammation, rejection of implants, foreign body granulomas, excessive scar formation, lack of tissue-adhesion, material degradation, infection and toxicity are very common. BiomaTiCS offers an excellent platform for an exchange of information among competent specialists to combine all their knowledge necessary to tackle these problems.

Bösing Dental & Implant Solutions

Your complete solution for CT guided dental implants and customized surgical guides.

Our Dental Masters Laboratory is always working with the most modern equipment. With the continuing education of our team we know about the newest progress in dental medicine and dental techniques. Our claim is to deliver the highest quality dental products to our clients.

We love what we do – Find out for yourself!

- Implant Prosthetics
- 3D-Planing
- 3D-Printing
- CAD/CAM Technology
- Surgical Guides
- Customized Abutments
- Aligners

CERHUM SA

“CERHUM is specialized in ceramic additive manufacturing (3D printing) and helps its customers to design, select best BIO-materials and realize finished products from prototypes to series.”

This production company is specialized in ceramic additive manufacturing process (3D printing) and other advanced process. CERHUM helps companies to design, choose the best material and then produces from small to big quantities. Its expertise covers Medical and biotechnologies, but also electronics, aerospace, automotive, luxury... CERHUM is a close partner of strategic 3D players like Sirris (BE) and Prodways (FR).

Its founder and CEO, Grégory Nolens, specialized in advanced manufacturing and in medical device, Grégory has a strong background in products development using innovative process for further industrial applications. Next to his PhD in Biomedical sciences, Grégory has developed expertise in advanced manufacturing, in ISO standards and regulatory affairs. He is also external lecturer at University of Namur, teaching students the innovation and realities of medical industry.

Concept Laser GmbH

Concept Laser GmbH is one of the world’s leading providers of machine and plant technology for the 3D printing of metal components. The patented LaserCUSING® process – powder-bed-based-laser melting of metals – opens up new freedoms when it comes to configuring components and also permits the tool-free, economic fabrication of highly complex parts in fairly small batch sizes.

The applications of medical technology include, among others, implants for the skull, hip, spinal column, foot, knee joint and other prostheses for fractures, deformities, degenerative instability, tumor diseases etc. Surgical instruments and medical devices are other typical applications of 3D metal printing, as are crowns and bridges, model castings and abutments in the dental field.
ConforMIS Inc. and ConforMIS Europe GmbH

ConforMIS is a medical technology company that uses its proprietary iFit® Image-to-Implant® technology platform to develop, manufacture and sell joint replacement implants that are individually sized and shaped, or customized, to fit each patient’s unique anatomy. ConforMIS offers a broad line of customized knee implants designed to restore the natural shape of a patient’s knee. In recent clinical studies, iTotal® CR, ConforMIS’ cruciate-retaining total knee replacement implant and best-selling product, demonstrated superior clinical outcomes, including better function and greater patient satisfaction compared to traditional, off-the-shelf implants. ConforMIS owns or exclusively in-licenses approximately 500 issued patents and pending patent applications that cover customized implants and patient-specific instrumentation for all major joints and other elements of the iFit® Image-to-Implant® technology platform. ConforMIS believes its iFit® Image-to-Implant® technology platform has application to other major joints in the worldwide market for joint replacement products. ConforMIS Europe GmbH is a 100% subsidiary of ConforMIS Inc. USA

DreveDentamid GmbH

In order to come up to the growing demand for digitally produced models and drilling templates DreveDentamid GmbH have profoundly engaged themselves in this topic. With an enormous effort of the in-house department of Research and Development Dreve managed to realize all the measures necessary to allow the smooth and trouble-free process of rapid manufacturing per model. We have been employing the generative manufacturing units D30 and D35 in our Unna factory for more than a year now. The Scan-LED technique used in these machines is a further development of stereolithography which allows for manufacturing with highest precision and attention to detail.

With the introduction of the new ordering portal Print@Dreve, DreveDentamid GmbH now offers a very convenient and easy to handle ordering system. Invoicing of the services will be done by the authorized distributor that is chosen by the dental lab. And still the highly qualified technical support is provided by the specialists at DreveDentamid GmbH.

EXHIBITORS

EOS GmbH

Founded in 1989, EOS is the global technology and quality leader for high-end Additive Manufacturing (AM) solutions. As the leading pioneer of Direct Metal Laser Sintering (DMLS™) technology, EOS also provides a unique polymer AM portfolio. For these industrial 3D Printing processes, EOS offers a modular solution portfolio including systems, software, materials, technical and consulting services. EOS is the partner of choice for industrial AM production, enabling sustainable solutions for the industry. Customers utilizing EOS AM solutions gain many benefits from the paradigm-shifting technology: lightweight structures, cost reduction based on functional integration, individualization as well as accelerated product development and production.

GeSiM mbH

GeSiM is a bioinstrumentation company. With the BioScaffold-Printer BS3.1 GeSiM offers a 3D printing solution for printing of material composites for tissue engineering and medical research. The multi-axes machine allows combining stiff materials for mechanical modelling with cell-friendly soft materials. Up to three pneumatic extruders print materials like hydrogels, alginate, collagen, bone cement or melt PCL. A micro-volume pipetting unit featuring proprietary piezoelectric pipets extends BS3.1 optionally. It allows applying tiny volumes of protein or cell suspensions on 3D structures during the print. This year GeSiM will launch a melt electro writing module for printing tiny polymer struts. The machine reads in CAD data in the STL format.

GOM-Gesellschaft für Optische Messtechnik

GOM is a global manufacturer that develops, produces and distributes software, machines and systems for industrial and automated 3D coordinate measuring technology and 3D testing.
“Deutsche Gesellschaft für Projektmanagement e.V.” is the leading association for project management in Germany. GPM has been founded in 1979. GPM has more than 7,500 members, of which approximately 350 are corporate members from all areas of business, universities and public institutions. GPM is actually the largest network of project management experts on the European continent. The main purpose of GPM is to promote, develop, systematize, standardize and broadcast project management practice in Germany.

Around 30 GPM Specialized Groups work on different, specific aspects of project management. The specialized groups work on all sectors, develop different techniques and practices. One of the specialized Group is “PM Healthcare” – this group develops project management know how in pharmaceutical, medical, biotechnological, medical technology, hospital and clinical aspects.

Currently there are 37 GPM Regions, spread at local level all other Germany. The GPM Regions play an important role with respect to the project management-based work. The Region Frankfurt/Rhine-Main is one of the leading GPM Region in Germany. It provides a platform for industry networking and experience exchange on project management.

InnoTERE GmbH

InnoTERE combines people who are focused to develop, produce and market artificial bone. It is our goal to provide patients and surgeons with unique clinical solutions. Patients profit from InnoTERE’s medical devices because they do not need to undergo a painful bone graft harvesting procedure or obtain a bone graft from a human or animal cadaver. InnoTERE’s biomaterials technology is purely synthetic. Surgeons mainly benefit from the ease of handling.

Moreover, InnoTERE’s unique technology platform provides a large variety of calcium phosphate based products for R&D partners – tailored exactly to their needs. This includes powders, pastes, and scaffolds – all chemically or dimensionally adjustable in a wide range. 3D powder printing, bioprinting, in vitro substrates, and implants are all examples of many suitable applications. Long-lasting experience combined with high flexibility and reproducibility allows InnoTERE to support your projects from the first idea to the final application. InnoTERE are THE BONE MAKERS.

KLS Martin Group

The KLS Martin Group is a global, medium-sized, family-owned medical equipment company based in Tuttlingen. Abiding by the corporate philosophy “Surgical Innovation is our Passion,” KLS Martin develops comprehensive medical technology solutions that are highly practice-oriented. With over 1,000 employees throughout the world the Group accounts for about 75 percent of sales by value in foreign markets. KLS Martin has its own subsidiaries and partner companies in the USA, Brazil, Great Britain, France, Italy, the Netherlands, Australia, Malaysia and Japan. Its products are distributed in over 140 countries worldwide.

Gebr. Martin GmbH & Co KG  |  A company of the KLS Martin Group
KLS Martin Platz 1  |  78532 Tuttlingen  |  GERMANY
Phone: 0049 7461/706-0  |  Fax: 0049 7461/706-193

Materialise GmbH

Materialise incorporates more than 25 years of 3D printing experience into a range of software solutions and 3D printing services, which together form the backbone of the 3D printing industry. Materialise’s open and flexible solutions enable players in a wide variety of industries, including healthcare, automotive, aerospace, art and design, and consumer goods, to build innovative 3D printing applications that aim to make the world a better and healthier place. Headquartered in Belgium, with branches worldwide, Materialise combines the largest group of software developers in the industry with one of the largest 3D printing facilities in the world.

Minerva KG

Founded in 1949 in Göttingen (Germany) Minerva has developed into one of the largest independent bookstores in Germany specialized in Medicine and Related Sciences. Minerva offers a wide selection of books, journals and electronic products from the most respected publishers throughout the world. Our clients, such as Hospitals, Libraries, Researchers and Individuals appreciate Minerva’s full-service and the high commitment to our customers and their needs. Competent consulting combined with an effective procurement makes our promise come true: Our service for your success!
Multiphoton Optics GmbH

Multiphoton Optics offers a 3D Printer Platform, Software and Prototyping & Engineering Support for high-precision 3D printing of many materials. Additive and subtractive fabrication are integratable into standard 2D process work flows, providing high-precision 3D prototyping of miniaturized designs in automated, scalable processes for products in Information & Communication Technology, IoT, photonic or medical packaging.

Nanoscribe GmbH

Nanoscribe’s 3D laser lithography system, Photonic Professional GT, sets new standards in 3D microprinting and maskless lithography. It is a fast and powerful platform for micro- and nanofabrication and a valuable tool for tasks in R&D in science and industry.

The systems enable the fabrication of true 3D micro- and nanostructures into photosensitive materials based on the technique of two-photon polymerization. In combination with the included software package, the turnkey system is embedded best along the 3D printing workflow and allows highest resolution with a previously unavailable freedom of design.

Subsequent independent processes enable the transfer and/or replication of polymeric 3D printed templates into a large choice of materials. The additive manufacturing of 2D, 2.5D and 3D objects paves the way for a wide field of novel applications, e.g. in photonics, micro-optics, micro-fluidics, life sciences and tissue engineering.

Ortho Baltic Implants - Baltic Orthoservice

Ortho Baltic Implants is a trademark owned by the company Baltic Orthoservice, in market more known as producer of custom-made assistive orthopaedic devices under the name of Ortho Baltic. In 2012 the company invested in additive manufacturing technologies and expanded its made-to-order services to the design and production of patient-specific joints, cranial and spinal implants, bone plating systems, dental & jaw restoration implants and patient-specific surgical guides. Our Quality Management System has been approved to ISO 9001, ISO 13485, and ISO 14001 standards.

Ortho Baltic is pioneer in developing of patient-specific implantable medical solutions in all East European Region. Our company employs a team of highly qualified biomechanical, mechanical, material science and IT engineers and work closely cooperating with University Hospitals, and actively participates in number of European Research Projects.

OssDsign AB

OssDsign is an innovator, designer and manufacturer of implants and material technology for bone regeneration. We are dedicated to the creation of regenerative implants for healing of bone defects and deficits in skull, facial and other types of surgery. OssDsign has successfully launched its patient specific products OssDSIGN® Cranial and OssDSIGN® Facial in Germany, the UK and the Nordic countries, with further global market expansion ongoing.

We are surgeons, scientists and engineers - committed to improving outcomes in cranioplasty and facial reconstructive surgery. By combining clinical insight with proprietary material technology and patient adapted design, we supply an expanding range of tailored solutions for cranial repair and facial bone reconstruction. Our technology is the result of collaboration between clinical researchers at the Karolinska University Hospital, Stockholm, and material science experts at the Ångström Laboratory at Uppsala University.

Renishaw PLC

Renishaw is one of the world’s leading engineering and scientific technology companies with expertise in precision measurement and healthcare. The company supplies products and services used in applications as diverse as jet engine and wind turbine manufacture, through to dentistry and brain surgery. It is also a world leader in the field of additive manufacturing (also referred to as 3D printing), where it is the only UK business that designs and makes industrial machines which ‘print’ parts from metal powder.

The Renishaw Group currently has more than 70 offices in 35 countries, with over 4,000 employees, of which 2,700 people are employed within the UK. The majority of the company’s R&D and manufacturing is carried out in the UK and for the year ended June 2016 Renishaw achieved sales of £436.6 million of which 95% was due to exports. The company’s largest markets are China, USA, Germany and Japan.
For more than 25 years, Stratasys Ltd. has been a defining force and dominant player in 3D printing and additive manufacturing – shaping the way things are made. Headquartered in Minneapolis, Minnesota and Rehovot, Israel, the company empowers customers across a broad range of vertical markets by enabling new paradigms for design and manufacturing. The company’s solutions provide customers with unmatched design freedom and manufacturing flexibility – reducing time-to-market and lowering development costs, while improving designs and communications. Stratasys subsidiaries include MakerBot and Solidscape, and the Stratasys ecosystem includes 3D printers for prototyping and production; a wide range of 3D printing materials; parts on-demand via Stratasys Direct Manufacturing; strategic consulting and professional services; and the Thingiverse and GrabCAD communities with over 2 million 3D printable files for free designs. With more than 2,700 employees and 1,200 granted or pending additive manufacturing patents, Stratasys has received more than 30 technology and leadership awards.

The Straumann Group is a global leader in implant, restorative and regenerative dentistry. We offer our products and services to dental professionals and dental laboratories around the world.

EXHIBITORS

Stratasys Ltd.

A comprehensive product portfolio

With Straumann’s roots in Swiss precision engineering and clinical excellence, the company has pioneered many of the most influential technologies and techniques in our field. Straumann’s tradition of ‘Simply doing more for dental professionals’ to advance dental regeneration, restoration, and replacement as well as patient care has helped us to consistently broaden our product portfolio since going public in 1998.

Straumann® CARES® Digital Solutions represents a complete dental solution, from digital impression-taking using intra-oral scanning to the computerized production of prosthetics using state-of-the-art CAM processing. Each individual step seamlessly interlocks with the next and is designed for high quality all along the digital workflow.

TeraRecon GmbH

TeraRecon is the largest, vendor neutral medical image viewing solution provider with a focus on advanced image processing innovation. We are now extending our capability to the 3D printing world with a dedicated image processing workflow to enhance 3D printing outcomes. Healthcare’s first ever online 3D printing service allows physicians to print full-color, remarkably realistic models directly from DICOM data within their existing TeraRecon workflow. Printing your model is easier than ever. Every TeraRecon system houses a feature that allows users to print directly from their existing workflow. It provides a way to print full-color 3D models without the need for a printer or any 3rd party software, while avoiding the use of giant, inefficient STL files. Additionally, TeraRecon offers services to support your segmentation or design needs with complex studies or models.

Universitätsklinikum RWTH Aachen - Zahnärztliche Werkstoffkunde und Biomaterialforschung

The Department of Dental Materials and Biomaterials Research (www.biomaterials-research.de), RWTH Aachen University Hospital (Head: Univ.-Prof. Dr.-Ing. Horst Fischer) develops tailored biomaterials for intelligent prosthesis and innovative implants. These novel materials are designed for application in the fields of soft tissue engineering, dentistry, orthopaedics, and trauma surgery. Due to the wide range of interdisciplinary subject matters our team consists of materials scientists, mechanical and biomedical engineers and biologists.

Our research focus is within the field of tissue engineering. In particular we develop novel 3D-bioprinting techniques and investigate the interaction between 3D printed cells and materials in different projects funded by DFG and BMBF. Bioprinting can be used to print cell-laden hydrogel constructs, which are subsequently matured in a bioreactor, to replace damaged or diseased tissue. Furthermore those cell constructs can be used according to the ‘organ-on-a-chip’ principle. Here, in-vitro tissue models are used to address fundamental biological, medical, and pharmacological questions.
The 3D Printing Association adopts a comprehensive cross-sector approach, sees itself as a non-partisan think tank and is prepared to form strategic alliances with all stakeholders who are committed to the development of additive manufacturing in Germany and throughout the rest of Europe.

The 3D Printing Association, Lobby Group for 3D Printing Technology was founded in Berlin in May 2016. The goal is to represent the many-faceted interests of the 3D printing technology (additive manufacturing) sector in interaction with political bodies, society and the media and to act as the voice of our members engaged in research, development and application of this technology. In our view it also includes giving our members the opportunity for networking, informing opinion leaders and the public at large via discussions, projects and events about the wide variety of topics relating to additive manufacturing and monitoring national and international developments and to bring them into the discussion in the interests of these members. Finally we also plan to support training and further training projects in this field of technology.

WEE-Solve GmbH is a service provider for analysis, fractionation / purification of polymers, and contract research in the field of polymer chemistry. Analysis mainly we offer rheological and viscometric measurements. This can be standard measurements as well as complex investigations. Additional we offer several analysis methods for the characterization of polymers.

Fractionation / purification of polymers
We tailor the molecular weight distribution of your polymer, i.e. we remove low and/or high molecular weight contents or low molecular impurities in order to optimize their properties for advanced applications.

Contract research
We offer general contract research in the field of physical chemistry. In particular we possess long term experience in the determination of phase diagrams, turbidity analysis and research under high pressure.

3D printing for beginners
Are you interested in 3D printing but not sure where to start? 3Dprintingforbeginners.com is here to help. We are the One Stop Shop for information and resources to get you started in 3D printing today. No hype or guru talk, just plain hands-on advice!

EUROPEAN HOSPITAL Verlags GmbH
For 25 years European Hospital has been the voice of European healthcare communication, both with the print edition and the online presence which was introduced ten years ago.

It is our mission to observe these changes and to reflect on them. Our interviews and reports, editorials and product reviews aim to address the needs of hospital managers, medical and technical directors, senior physicians and nursing managers. We will keep you up-to-date on trends and innovations in the healthcare market: We cover the entire field from clinical practice through medical technology to clinical research. Experts will provide answers to the most pressing healthcare issues. Which solutions will really help optimize logistics, HR or financial management? Which high-end products will be launched shortly, which applications will be introduced? How can you tap the full strategic potential of your hospital information system? How can you rein in your nursing costs?

You will find the answers in healthcare-in-europe.com – the heartbeat of the European healthcare market.
The magazine "mt medizintechnik" devoted itself to all aspects of medical technology with diagnostic and curative process and gives attention to the techniques and the operation of medical devices.

The magazine informs about ongoing technologies and their use in a certain field, offers market review and describes development trends.

In addition it looks at the entire organizational background of the medical technology. This includes the latest judicial information as well as contributions to the quality-, device- and business management.

"mt medizintechnik" is the only practically based magazine for medical technology in the German-speaking market. The magazine built a bridge between medicine and technology for the operator and manufacturer for hospitals and the medical industry.

Prototype Today

Prototype Today is an informational resource website for prototyping and manufacturing videos, news and events. The site contains over 5000 videos broken down into 60+ categories for easy access. There are also over 5000 articles and press releases available to search by a variety of criteria including company, most recent, tags, most popular and by month.

VDMA (Verband Deutscher Maschinen- und Anlagenbau e.V.)

The VDMA (German Engineering Federation) is the largest industry association in Europe with over 3,100 members ranging from small to medium firms offering high precision engineering, measuring and testing technology, precision tools, machine tools and manufacturing systems and much more in between.

They have branch offices in Berlin and Brussels as well as liaison offices in Brazil, China, India, Japan and Russia and work to represent the shared economic, technical and scientific interests of their members, especially with respect to national and international authorities and business groups.

The Working Group Medical Technology comprises of medical device manufacturers, research institutes and engineering companies. It is the platform within the VDMA regarding production technology and components for medical devices.
INFORMATION

INFORMATION FOR SPEAKER

It is necessary that speakers visit the Speaker Preparation Room well in advance of their presentation (at least 45 minutes prior) to ensure the presentation is checked and tested. You will be briefed on how to use the system when you meet with the audio visual technicians.

The following AV equipment will be available in every room at the Conference:

- Data Projector and Screen
- Lectern with Microphone

Presentations must be provided in a version of Microsoft PowerPoint. Please ensure your PowerPoint Presentations are in 16:9 or 4:3.

Speakers are advised to bring their presentation on CD-Rom or USB Memory Stick. Should your presentation be in MAC format, it is imperative that this be converted to PC format prior to arrival at the conference.

If your presentation includes movies or animations please make sure to bring them with you to the speaker ready room for uploading, even if you chose to “embed” your media files.

The use of own laptop is not advised.

For questions and special requirements, please contact boeld communication: congress@bb-mc.com

DECLARATION OF CONFLICT OF INTEREST

All conflicts of interest must be disclosed. Financial relationships with industry such as consultancies, either directly or through an immediate family member, are considered conflicts of interest. All financial support for the work must be acknowledged as part of the presentation.

You must also declare/acknowledge to delegates any funding support or programs that you are associated with.

POSTER PRESENTATION

Poster size should not exceed 84,1 cm in width and 118,9 cm in height (DIN A0).

The posters will be displayed during the whole meeting. Assistance and material (tape etc.) for mounting the posters will be provided at the congress. Posters can be mounted on the poster boards on Friday, May 19, from 8:00 am.

Posters will be visited by the chairs. We kindly ask all authors of the posters to be present at their poster during the coffee break on Saturday, May 20, 2017 between 10:25 am - 10:55 am.

All posters should be removed at the end of the congress on Saturday, May 20, 2017.

Leftbehind posters are going to be disposed.

CERTIFICATION

The Conference has been certified by the Medical Chamber of Rhineland-Palatinate with 16 continuing medical education points.
# REGISTRATION FEE

## REGISTRATION FEES FOR SCIENTIFIC PROGRAM MAY 19 – 20, 2017

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The registration fee includes lunch and coffee breaks each day and all scientific sessions.

| Entrance Industrial Exhibition only | 30 Euro |

## SOCIAL PROGRAM | MAY 19, 2017

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*Please send us a confirmation via Mail to congress@bb-mc.com or via Fax to +49 (0)89 18 90 46 16.

The registration fee includes lunch and coffee breaks each day and all scientific sessions. All prices include 19% VAT and service charge.
2ND INTERNATIONAL CONFERENCE ON 3D PRINTING IN MEDICINE

www.3dprint-congress.com