

**AMMM Aims**

Additive manufacturing has long since proven its suitability for everyday use. However, many questions remain unanswered for use in medicine. Complex melting and hardening processes take place during the layer-by-layer construction of medical devices from liquid or solid materials, the physical-chemical modelling of which is often still pending. A discussion forum is given at AMMM on topics relating to the achievable precision and the expected technical properties of the medical devices.

**AMMM Conference Topics**

Topics include, but are not limited to application fields in various body regions: **Hard tissue** (cranium, extremities, thorax, etc.); **soft tissue** (brain, heart, liver, kidney, lung, skin, vessels, etc.); **diagnostics and therapy** in internal medicine, ophthalmology, neo and prenatal medicine, dentistry, nuclear medicine, maxillofacial surgery, oncology, orthopedics, pediatrics, etc; **rehabilitation, veterinarian medicine, cosmetic medicine, medical education and training** as well as **forensic medicine**.

Special emphasis is also given to **personalized medicine** with applications in **endoprothetics, exoprothetics, special aids** (e.g. hearing aids), **implants, novel drug delivery systems** (API) etc; AMMM 2019 will give a particular focus on the **medical device regulation** of patient-specific devices.

Besides medical case studies, dedicated technology is in the focus of the conference: **Print model design, Printing technologies: Bioprinting** (cell printing), new **printing techniques, new print materials, precision improvement, postprocessing techniques**; material science: **Biocompatibility**, material properties, soft and elastic medical devices.

**Conference Chairs**

**Thorsten Buzug**, University of Lübeck, Germany  
**Hermann Seitz**, University of Rostock, Germany

**Scientific Program Committee**

**F. Auricchio**, University of Pavia, Italy; **P. Bartolo**, University of Manchester, UK; **M. Baumers**, University of Nottingham, UK; **R. Bibb**, Loughborough University, Leicestershire, UK; **P. Brantner**, University Hospital Basel, Switzerland; **P. Breedon**, Nottingham Trent University, UK; **T. Buzug**, University of Lübeck, Germany; **L. Chepelev**, University of Ottawa, Canada; **B. Chichkov**, University of Hannover, Germany; **G. De Pasquale**, Politecnico di Torino, Italy; **R. Detsch**, University of Erlangen-Nuremberg, Germany; **U. Gbureck**, University of Würzburg, Germany; **A. Giannopoulos**, University Hospital Zurich, Switzerland; **I. Gibson**, University of Twente, Netherlands; **J. Groll**, University of Würzburg, Germany; **G. Jabbour**, University of Ottawa, Canada; **M. Kleemann**, University Medical Center Schleswig-Holstein, Lübeck, Germany; **B. Koc**, Sabanci University, Istanbul, Turkey; **S. Kumaraguru**, Indian Institute of Information Technology Design and Manufacturing, India; **T. Lüth**, Technical University Munich, Germany; **J. Nygaard**, Aarhus University, Denmark; **P. Metherall**, Sheffield Teaching Hospitals NHS Foundation Trust, UK; **V. Mironov**, 3D Bioprinting Solutions, Russia; **A. Ovsianikov**, Vienna University of Technology, Austria; **I. Ozbolat**, Penn State University, USA; **L.-E. Rännar**, Mid Sweden University, Östersund, Sweden; **H. Seitz**, University of Rostock, Germany; **L. Schultheis**, University of Maryland, USA; **J. Stubbs**, University of Central Florida, USA; **A. Sutiono**, National Additive Manufacturing Innovation Cluster, Singapore; **W. Swieszkowski**, Warsaw University of Technology, Poland; **F. Thieringer**, University Hospital Basel, Switzerland; **L. Tüshaus**, University Medical Center

Schleswig-Holstein, Lübeck, Germany; **J. Wolff**, Fraunhofer IAPT Hamburg, Germany; **H.-F. Zeilhofer**, University of Basel, Switzerland; **J. Zhang**, University of Alabama at Birmingham, USA

**Submissions**

Authors are invited to submit short papers of not more than two pages before Jun 03, 2019. Papers will be accepted only, if the template was used accurately. The short papers will be peer-reviewed and published in the Book of Abstracts available at the workshop. Each paper published in the Conference Proceedings is assigned a DOI number. Contributions will be published online and in print.

**Important Dates**

Deadline AMMM paper submission	June 3, 2019
Notification of paper acceptance	July 1, 2019
Deadline for revised AMMM papers	July 22, 2019
Deadline for reduced-rate registration	July 22, 2019

Please be aware that a maximum of two presentations per registered person is possible. Please note that the abstract upload does not replace a conference registration. To be included in the program, authors are requested to register for the AMMM before July 22, 2019.

**Registration Fees AMMM**

Please register online: [www.3dweek.org/registration](http://www.3dweek.org/registration)

	until July 22, 19	from July 23, 19
Attendance fee public	250 €	290 €
Attendance fee companies	350 €	390 €
Attendance fee students	170 €	190 €

Only valid up to the age of 27 years with student ID.

**Datum und Zielgruppe**

Der Mittelstandstag findet am 11. Sept. 2019 statt und richtet sich insbesondere an Unternehmen aus Norddeutschland.

**Themen**

**Metallischer 3D Druck - Chancen und Risiken:** Langsam erobert diese Technologie nach den Entwicklungsabteilungen auch die Produktion. Was ist der aktuelle Stand und welches Potenzial birgt diese Technologie? Lohnt es sich für mein Unternehmen, sich damit auseinanderzusetzen? Erfahren Sie von den Entwicklern dieses Verfahrens, welche Chancen sich durch den metallischen 3D-Druck ergeben, wie sich Ihre Ideen realisieren lassen und wo die Grenzen dieser Technologie liegen. **Kunststoff 3D Druck - Was bringt er meinem Unternehmen:** Ist der Kunststoff 3D-Druck eine Chance für mein Unternehmen oder bin ich mit einer klassischen FDM oder SLS Anlage besser beraten? Gibt es vielleicht noch ein ganz anderes Verfahren, das sich für meinen Anwendungsfall optimal eignet? Erfahren Sie all dies und mehr in spannenden Vorträgen. **Startups:** Neben etablierten Firmen spielen Startups eine entscheidende Rolle in der 3D-Druck Szene: Sie greifen die neuesten Trends und Ideen aus der Forschung auf und setzen sie um. Auf der 3D Week können sie innovative Startups aus der 3D-Druck-Szene kennenlernen und neue Kontakte knüpfen.

**Themenaufwurf**

Interessierten Unternehmen wird die Möglichkeit angeboten, Ihre Anwendungsfälle zu präsentieren und sich an der Industrieausstellung zu beteiligen. Kontakt: [info@3dweek.org](mailto:info@3dweek.org)

**Leitung**

**Frank Schröder-Oeynhaus**  
 Technikzentrum Lübeck  
 Maria-Goeppert-Straße 1, 23562 Lübeck, Germany

**3D-Druck im medizinischen Umfeld**

Zielgruppe: Ärzte, Klinik- und Praxismitarbeiter  
 Daten: 1 Tag | 11. September 2019 | CME  
 Teilnahmegebühren: 780,- Euro zzgl. USt.

**Expertenkurs: Digitalisierung für den 3D-Druck in Industrie und Biomedizin**

Zielgruppe: Anwender des 3D-Drucks  
 Daten: 1 Tag | 10. September 2019  
 Teilnahmegebühren: 780,- Euro zzgl. USt.

**Intensivkurs 3D-Druck für Ingenieure**

Zielgruppe: Technisch Interessierte mit geringen Vorkenntnissen im Bereich 3D-Druck  
 Daten: 2 Tage | 9.-10. September 2019  
 Teilnahmegebühren: 980,- Euro zzgl. USt.

**Applikationen und Zulassung: Individualisierte Medizinprodukte**

Zielgruppe: Professionelle Anwender  
 Daten: 1 Tag | jeweils am 12. und 13. September 2019 | CME  
 Teilnahmegebühren: 980,- Euro zzgl. USt.

**General Information 3D Week 2019**

**Schedule / Übersicht**

**Monday, Sep 09 and Tuesday, Sep 11**  
 Training Courses

**Wednesday, Sep 11**  
 Industry Symposium, Industrial Exhibition, Trainings, Barbecue

**Thursday, Sep 12**  
 AMMM, Industrial Exhibition, Training Courses, Get-Together

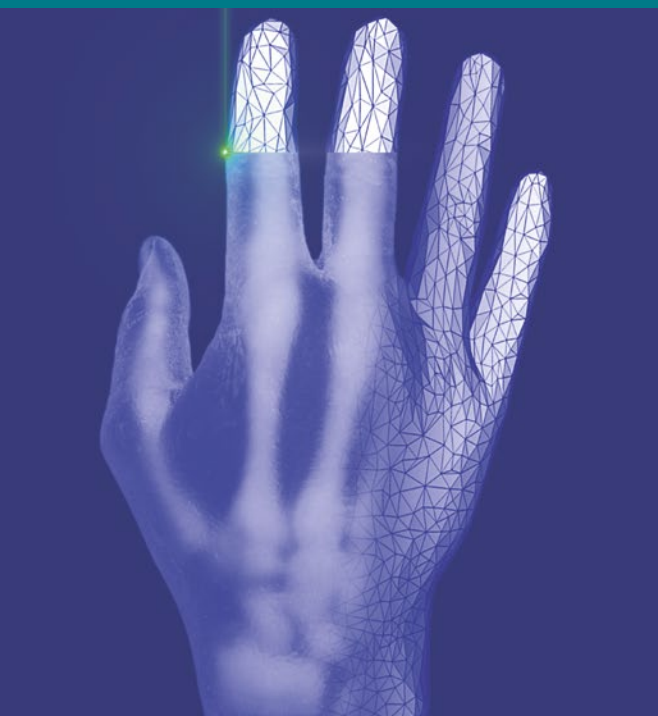
**Friday, Sep 13**  
 AMMM, Industrial Exhibition, Training Courses

**Host and Contact / Veranstalter**  
**Kanina Neideck**, Infinite Science GmbH, M.-Goepfert-Str. 1, 23562 Lübeck, Germany; Mail: [info@3dweek.org](mailto:info@3dweek.org)



**3D Week**

International Scientific Conference on **Additive Manufacturing Meets Medicine (AMMM)**



**Call for Papers**  
 Sep 12-13, 2019 | Lübeck, Germany  
 12 CME points