



Rapid.Tech + FabCon 3.D
25 - 27 June 2019, Messe Erfurt, Germany

Between Heaven and Earth Renowned keynote speakers to highlight applications and opportunities for additive manufacturing in medicine, industry and aerospace at Rapid.Tech + FabCon 3.D

(Erfurt, 18 March 2019). Rapid.Tech + FabCon 3.D will mark their 16th edition this year with a range of new exhibition and conference topics and enhanced networking opportunities. More than 200 exhibitors and 5,000 trade visitors are expected to gather at the International Hub for Additive Manufacturing in Erfurt from 25 to 27 June 2019. "The practice-based exhibition and the user-focused specialist conference with its world-class keynote speakers will remain at the heart of the event. Together with our advisory board, we have once again been able to secure a number of renowned experts who will explore the topic of additive manufacturing and its applications across a growing range of fields, from medicine and industrial manufacturing to the aerospace industry," promises Michael Kynast, CEO of Messe Erfurt GmbH.

The opening address on the first day (25 June 2019) will be given by Dr Majeed Rana, Chief Physician and Vice Director of the Department of Cranio- and Maxillofacial Surgery at Düsseldorf University Hospital. He will discuss the use of computer-assisted surgery in the microvascular reconstruction of facial bones. Additive processes play a vital role in this field as 3D-printed models can be used in procedures such as the complete replacement of bones with microvascular defects. Accident-related injuries or illnesses affecting the face can be treated with far better results for the patient than traditional methods would achieve. As a specialist in reconstructive facial surgery, Dr Rana has some ten years' experience in the use of additive processes. His knowledge forms a central part of the expertise within the Düsseldorf department, which has established itself as one of the leading institutions in this field worldwide due to its proficiency and range of equipment for 3D printing and computer-assisted surgery.

The second day (26 June 2019) will begin with a keynote from the perspective of an industrial user. Ulli Klenk heads up additive manufacturing technology and hardware activities at Siemens Power Generation Services. He focuses on the industrialisation of existing additive manufacturing processes and the development of new ones. Additive processes are already used across the company's entire portfolio of components for turbine production – from the compressor to the combustion chamber to the turbine itself. The AM expert is also working within a number of bodies to establish industry standards and certifications for additive processes. His keynote will outline how the benefits of additive manufacturing are harnessed throughout the entire value creation chain in turbine manufacturing, starting with the development and design of parts with innovative topologies that can only be manufactured using 3D printing processes. This method of component production can increase both the effectiveness of the turbines and the efficiency of their manufacturing process. From a wider social perspective, this supports the global drive to reduce CO₂ emissions.

Additive manufacturing's role in future spacecraft propulsion applications will be the subject of the keynote by Dr Steffen Beyer from the Ariane Group on 27 June 2019. The materials specialist is Head of Production Technology – Materials and Processes in the Airbus subsidiary's rocket launcher division. He will explore the requirements and challenges associated with the industrial production of high-performance spacecraft propulsion components. Alongside the well-established laser beam melting (LBM) process, the Ariane Group is also developing wire and arc manufacturing (WAAM) and cold gas spray (CGS) processes for industrial use. Dr Beyer has been working in the field of additive manufacturing since 2003 and also



employs his expertise as chairman of the Aerospace Factory – Additive Manufacturing at the Ludwig Bölkow Campus in Munich.

The keynote speeches will open the conference proceedings on each of the three days, during which more than 100 talks will present the latest developments, trends and results relating to additive technologies and applications on both a theoretical and practical level. The programme will include three new topics in 2019, bringing it to a total of 14 sector-specific forums. The new topics are Plastics, Software & Processes, and Standardisation & EHS. “These new additions respond to the latest innovations and trends in the sector. They will help the event address all aspects of additive manufacturing and provide an ideal platform for industry experts to exchange information and opinions. Established favourites such as Automotive Industry, Medicine, Aviation and Contract Additive Manufacturing will also be back this year,” adds Michael Kynast. The 3D Printed Electronics & Functions, Design, Tool, Mould & Jig Construction, Metal and Law Forums will also feature on the programme, alongside the Fraunhofer Additive Manufacturing Alliance and the two-day AM Science Forum.

The redesigned presentation spaces and networking opportunities in the exhibition area will also help attendees to share their knowledge and experiences and to build and maintain their networks.

Further information: www.rapidtech-fabcon.com

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