



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

## **Europe's largest applied research organisation looks to Erfurt in the field of 3D printing**

**The Forum of the Fraunhofer Additive Manufacturing Alliance is held every two years at Rapid.Tech + FabCon 3.D – the 2019 event will be hosted on 26 June**

(Erfurt, 23 May 2019). In the field of additive manufacturing (AM), Erfurt occupies a place of special importance for the Fraunhofer Gesellschaft, Europe's largest applied research organisation. "Alongside our biennial Fraunhofer Direct Digital Manufacturing Conference, DDMC, we are represented in the intervening years at Rapid.Tech + FabCon 3.D with the Forum of the Fraunhofer Additive Manufacturing Alliance. For Fraunhofer, this means that Erfurt is now a key platform allowing us to showcase the latest developments from the 19 institutes that form part of the alliance and to share information and experiences with potential users. We value this high-quality event because it combines a specialist conference and a trade exhibition, giving it a unique position in the field," explains Dr Bernhard Müller, spokesman of the Fraunhofer Additive Manufacturing Alliance.

The 2019 Alliance Forum will be hosted on 26 June and will focus on issues relating to hybrid manufacturing technologies. It will shed light on the tailored use of energy sources in the hybrid processing of high-performance materials in additive manufacturing, as well as the issue of cost-efficiency when combining additive manufacturing (AM) with conventional processes, in addition to addressing aspects of additive multi-material processing in metalworking, such as laser melting. Other topics on the agenda include a talk on the use of die-casting for bonding additive-manufactured stainless steel components and aluminium castings, as well as a contribution on the surface treatment of components produced using additive-manufacturing processes.

Alongside developments in hybridisation, talks will examine consistent design throughout the AM chain within digital manufacturing, as well as process-relevant properties, such as the laser spot size in the selective laser sintering of polymers.

The Fraunhofer Additive Manufacturing Alliance will also present the results of its current research at the exhibition. The main exhibit will be the Siemens SGT6-8000H technology demonstrator, a turbine manufactured from aluminium, steel and titanium using electron beam and laser melting processes. This example of sophisticated components for propulsion and power-generating machinery demonstrates a range of AM developments. The Fraunhofer Additive Manufacturing Alliance comprises 19 Fraunhofer Institutes involved in the development, application and implementation of additive manufacturing processes and the associated materials. They provide research and development services across all fields of application for the entire AM process chain.

The Forum of the Fraunhofer Additive Manufacturing Alliance is one of 14 sector- and subject-specific forums on the conference programme for Rapid.Tech + FabCon 3.D. Three forums – Software & Processes, Plastics, and Standardisation & EHS – are appearing on the agenda for the first time. Alongside these new additions, the programme will feature the established forums on the Automotive Industry; Aviation; Medical, Dental and Orthopaedic Technology; Contract Additive Manufacturing; 3D Printed Electronics & Functions; Design; Tool, Mould & Jig Construction; Metal; and Law, as well as the two-day



AM Science forum. Overall, over the three days of the conference, there will be more than 100 lectures presenting the latest developments, trends and findings relating to additive technologies and applications in theory and practice.

The 3D Printing Conference and the redesigned presentation spaces and networking opportunities at the exhibition will also help attendees to share their knowledge and experiences and to build and maintain their networks.

For their 16th edition, Rapid.Tech + FabCon 3.D are yet again expecting over 200 exhibitors from Germany and abroad, as well as more than 5,000 international trade visitors and conference delegates.

Further information: [www.rapidtech-fabcon.com](http://www.rapidtech-fabcon.com)

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