

## FRAUNHOFER-EXHIBITORS

## FRAUNHOFER JOINT BOOTH HALL 3.0, BOOTH E70

### **Fraunhofer Additive Manufacturing Alliance**

[www.generativ.fraunhofer.de](http://www.generativ.fraunhofer.de)

### **Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM | [www.ifam.fraunhofer.de](http://www.ifam.fraunhofer.de)**

### **Fraunhofer Institute for Computer Graphics Research IGD**

[www.igd.fraunhofer.de](http://www.igd.fraunhofer.de)

### **Fraunhofer Institute for Laser Technology ILT**

[www.ilt.fraunhofer.de](http://www.ilt.fraunhofer.de)

### **Fraunhofer Institute for Production Technology IPT**

[www.ipt.fraunhofer.de](http://www.ipt.fraunhofer.de)

### **Fraunhofer Institute for Material and Beam Technology IWS**

[www.iws.fraunhofer.de](http://www.iws.fraunhofer.de)

## PARTNERS

### **ACAM Aachen Center for Additive Manufacturing**

[www.acam-aachen.de](http://www.acam-aachen.de)

### **LMI – Laser Melting Innovations | [www.lm-innovations.de](http://www.lm-innovations.de)**

### **Competition »Excellence in Production«**

[www.excellence-in-production.de](http://www.excellence-in-production.de)

## PARTYTIME!

On Wednesday, November 14 we invite you to the joint party of FRAUNHOFER and AALBERTS. From 18.15 we are looking forward to your visit on the Fraunhofer joint booth and the booths of our partner.

### **Fraunhofer-Gesellschaft**

The Fraunhofer-Gesellschaft is the leading organization for applied research in Europe. Its research activities are conducted by 72 institutes and research units at locations throughout Germany. The Fraunhofer Gesellschaft employs a staff of 25,000. Research of practical utility lies at the heart of all of its activities. International collaborations with excellent research partners and innovative companies around the world ensure direct access to regions of the greatest importance to present and future scientific progress and economic development.

### **Fraunhofer-Gesellschaft**

Hansastraße 27c | 80686 München | Germany

[www.fraunhofer.de](http://www.fraunhofer.de)

### **Project Management**

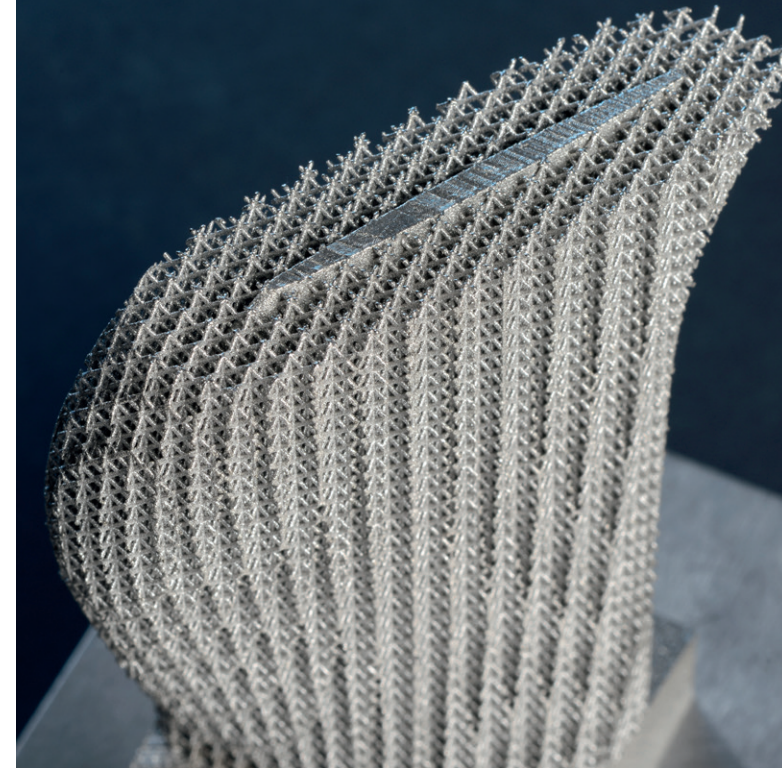
Joachim Riegel | Phone +49 241 8904-360

[joachim.riegel@ipt.fraunhofer.de](mailto:joachim.riegel@ipt.fraunhofer.de)

© Fraunhofer-Gesellschaft 2018, München

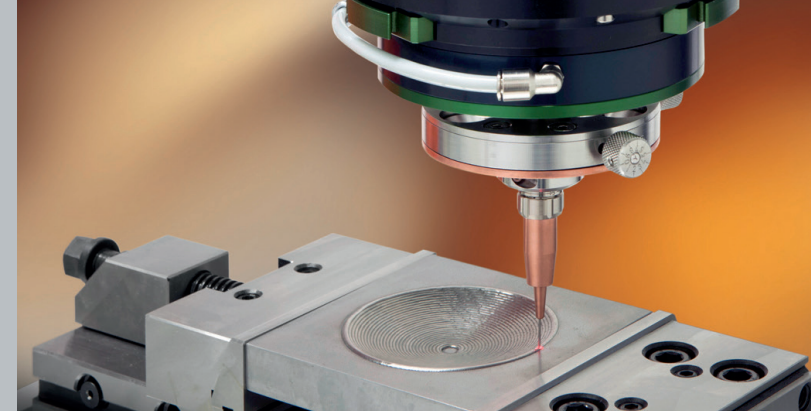
FORMNEXT, HALL 3.0, BOOTH E70, NOVEMBER  
13–16 2018, FRANKFURT EXHIBITION CENTER

## RESEARCH FOR THE FUTURE





## FRAUNHOFER TOPICS ON FORMNEXT 2018



### **ACAM Aachen Center for Additive Manufacturing**

ACAM Aachen Center for Additive Manufacturing provides access to innovative know-how, consultancy, and training. As a one-stop-shop for Additive Manufacturing, it accelerates the industrialization and wide-spread adoption of this disruptive technology within Europe's most vivid engineering ecosystem: The RWTH Aachen Campus.

### **LMI – Laser Melting Innovations**

LMI – Laser Melting Innovations is a highly innovative technology company that designs and markets metal 3D printing systems. Headquartered in Aachen, Germany the company's goal is to simplify additive manufacturing of metal components and make the technology accessible to small and medium sized companies. The Alpha 140 enables a cost-efficient production of complex metal parts and is aimed at applications such as toolmaking.

### **Competition "Excellence in Production"**

During Formnext the tool and die making competition "Excellence in Production" presents the winners of the four categories of the annual competition. Further, companies of the tool and die making industry get information about the competition and have the chance to register for 2019.

### **Fraunhofer Additive Manufacturing Alliance**

The Fraunhofer Additive Manufacturing Alliance integrates eighteen Fraunhofer institutes across Germany, that are involved in research about additive manufacturing (AM). The alliance focusses various topics around AM, covering the entire AM process chain. This includes the development, application and implementation of additive manufacturing processes as well as associated materials.

### **Fraunhofer IFAM**

Additive Manufacturing | Laser Beam Melting (LBM) | Selective Electron Beam Melting (SEBM) | 3D printing | Binder jetting | 3D materials printing | 3D screen printing | Fused filament fabrication | Metal FDM | From powder to component | Materials development | Powder quality management | Topology and manufacturing optimized construction | Additive mass production | Characterization | Process chain integration | Light metals | Hard metals | Refractory alloys

### **Fraunhofer ILT**

Additive Manufacturing | Laser Powder Bed Fusion (LPBF) | Process development | Machine development | 3DLP | Technical advice | Potential analysis | Process chains | Sensor integration | Optimization of production | Laser polishing | Laser coating | Heat treatment | Laser metal deposition | Multi process |  $\mu$ -LPBF | Polymer AM | Material development

### **Fraunhofer IGD**

Visual computing as a service | Interaktive simulation | Additive Manufacturing | Cyber-physical equivalence | 3-D-scan and modelling | 3-D-printing

### **Fraunhofer IPT**

Adaptive process chains | Machining of additive parts | Internet of Production | Digital twin | High performance cutting | Automated calibrating of 5-axis machines | EDM | ECM | Optical and tactile metrology | Automated fine machining | Laser structuring | CAD-CAM-programming | Additive Manufacturing | Wire-based laser metal deposition | Laser surface treatment | Technological consulting for toolmaking and additive manufacturing

### **Fraunhofer IWS**

Industrial systems for laser cladding using powder and wire | Additive Generative Manufacturing by direct metal deposition and powder bed method | Complete system solution for laser hardening

### **Further Fraunhofer Exhibitors on Formnext**

- Fraunhofer IAPT | Hall 3.0, Booth F88
- Fraunhofer IPA | Hall 3.1, Booth A48
- Fraunhofer ISC | Hall 3.0, Booth A78