



Rapid.Tech 3D
14 to 16 May 2024
Messe Erfurt

3D-printed electronics continue to gain ground **Innovations in Additive Manufacturing forum to highlight this technology sector on 16 May 2024**

(Erfurt, 16. April 2024)..A recent market study by Additive Manufacturing Research (AMR) forecasts significant growth for 3D-printed electronics. This technology of the future will be the subject of a session at the Innovations in Additive Manufacturing forum on 16 May 2024 at Rapid.Tech 3D.

According to an AMR study, the additively manufactured electronics sector is likely to grow by 37 percent per year over the next decade. “The market is developing rapidly. 3D-printed electronic parts with integrated functionalities are increasingly in demand – across many industries. For this reason we’ll be addressing developments in this field in a dedicated session at the Innovations in Additive Manufacturing forum,” explains Wolfgang Mildner, founder and owner of MSWtech, a company that assists customers with the application of printed electronics. Also a member of the Rapid.Tech 3D advisory board, Mildner is overseeing the content of the additively manufactured electronics session in the Innovations in Additive Manufacturing forum.

Overview of additive manufacturing in electronics

The session will start with an overview. Markus Ankenbrand, Mechatronic Integrated Devices (MID) Technology Sector Coordinator at Friedrich Alexander University Erlangen-Nürnberg and representative of the 3-D MID e. V. Research Association, will present methods and technologies for the additive manufacturing of 3D electronics that enable the production of spatial circuit carriers (3D-MID). In particular, he will present laser direct structuring for creating electronic circuits on three-dimensional surfaces, and a range of digital printing technologies. These technologies can accelerate the development of innovative products and systems in numerous industries – from consumer electronics to aerospace.

Fully additively manufactured luminaire

NeoTech AMT GmbH is a pioneer in additive electronics manufacturing. Dr Martin Hedges, the company’s Managing Director, will highlight the sustainability benefits of using additive manufacturing processes to produce electronic and mechatronic systems. He will describe how free-form and 5-axis 3D printing is combined with pre- and post-processing techniques. Demonstrating the latest developments in technology, he will use a feasibility study for a completely additively manufactured luminaire to illustrate the production process from design concept to CAD/CAM manufacturing through to AM production and AI-controlled quality assurance.

AME – next-level electronics manufacturing

The start-up J.A.M.E.S. is also dedicated to next-level electronics production using additive manufacturing, known as AME for short. Alexandre Schäfer, Head of Marketing and Sales at the German-Israeli joint venture, will present further applications for 3D-printed electronics. He will highlight the importance and benefits of the technology, and look at potential applications and the associated challenges.



Further topics at the Innovations in Additive Manufacturing trade forum

In addition to 3D-printed electronics, the Innovations in Additive Manufacturing forum is offering two further sessions. The agenda on 16 May will also include AM developments and applications with regard to green energy and hydrogen technologies. On 15 May, speakers will address the importance of additive manufacturing for the production and maintenance of defence technology.

Specialist conference with eight industry and science forums

Alongside the Innovations in Additive Manufacturing trade forum, other forums at the Rapid.Tech 3D specialist conference will provide insights into the latest developments and applications in additive manufacturing. On the first day of the event (14 May 2024), the AM4industry format organised by the Additive Manufacturing Working Group of the German mechanical and plant engineering association VDMA will welcome visitors for the first time. The established Aerospace forum is also set to take place that day, as is the Additive Manufacturing Science forum, which will continue into day two (15 May 2024). On day two, the Chemical and Process Engineering forum, presented by DECHEMA, and the Innovations in Additive Manufacturing forum will also run, alongside the Software, AI and Design forum. The Mobility and Additive Manufacturing Science forums by Fraunhofer will take place on the final day (16 May 2024).

About Rapid.Tech 3D:

In just two decades, Rapid.Tech 3D – with the specialist conference as its centrepiece – has become one of Central Europe's leading additive manufacturing trade events. This year's event will be held from 14 to 16 May at Messe Erfurt.

More at: www.rapidtech-3d.de/en

About Messe Erfurt GmbH:

Central Germany's largest trade show and conference venue, Messe Erfurt has established itself as a forum for businesses, scientists, doctors, trade unions and many other institutions. Every year, it hosts over 220 events, conventions, conferences, trade fairs, exhibitions, corporate events and concerts, attracting over 650,000 visitors.

More at: www.messe-erfurt.de/en/

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