



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

AM pioneer joins anniversary event

Dr Brent Stucker is keynote speaker at the 20th Rapid.Tech 3D – other distinguished AM experts from ASML, BMW and InnoSyn will open the conference days

(Erfurt, 11 April 2024). 3D printing pioneer Dr Brent Stucker is to open the second day of the Rapid.Tech 3D conference. Other keynote speakers at the anniversary event include Dr Radu Donose from ASML, Jochen Wendling from BMW and Dr Jan Brummund from InnoSyn.

Distinguished inventors, developers and users of additive technologies have been inducted in the TCT Hall of Fame since 2017. Dr Brent Stucker is one of this year's nominees for this exclusive group that currently comprises 14 people. In his present role as technology strategist at Wohlers Associates, Dr Stucker brings more than 30 years of AM expertise as a scientist, co-founder of 3DSIM, leading executive at ANSYS and 3D Systems and founding chairman of the ASTM international standardisation commission for additive manufacturing technologies to the annual Wohlers Report, among other things. On 15 May 2024, he will talk about the most important AM challenges to date as well as the significance of this key technology as a trailblazer for the future. Rather than a traditional speech, his address will take the form of a dialogue with the Rapid.Tech 3D advisory board chairman Prof. Dr Christian Seidel from Munich University of Applied Sciences. In this exchange, which promises many new insights, the two protagonists will analyse the AM technology field as a whole as well as specifically highlighting the application sectors that make up the Rapid.Tech 3D programme. These range from established areas of AM application such as aerospace, mobility and software/design to relatively new fields such as chemistry and process engineering. This dialogue will lead directly to the second keynote of the day.

InnoSyn: AM as a powerful tool for industrial chemical processes

Dr Jan Brummund, Business Development Manager at InnoSyn, will talk about additive manufacturing as a powerful tool for industrial chemical processes. The Dutch company offers research and production services for all phases of the development and scaling of chemical processes. InnoSyn plays a pioneering role in the development of 3D-printed flow reactors. In his keynote speech, Dr Brummund will illustrate how additive manufacturing can be used to create much finer reactor structures than those achieved with other processes. This makes it possible to manufacture reactors that adapt precisely to the requirements of the chemical processes, rather than the other way round. InnoSyn will be providing an insight into its 3D-printed flow reactor modules in the table-top exhibition at Rapid.Tech 3D. This show connects the Congress Center and the exhibition hall not only in terms of space, but also in terms of content, giving companies the opportunity to showcase 3D versions of the exhibits and services that they present in 2D at the specialist conference.

ASML: Using 3D printing to produce more productive lithography systems for semiconductor manufacturing

3D printing is also playing an increasingly important role in semiconductor manufacturing. Dr Radu Donose, Head of Additive Manufacturing Competence at ASML, will speak about the use of AM at the Dutch technology group in the opening keynote on 14 May 2024. The company is the world's leading supplier of lithography systems for semiconductor production. ASML uses innovative technologies such as AM to



produce new, more productive machines. More than 200 different components are already being additively manufactured from metal, plastic and ceramics in series production. Dr Donose will use examples from production to show how AM contributes to increasing the performance of ASML machines. In addition, ASML has created an internal AM standard for quality assurance, which also enables suppliers to produce parts reliably.

BMW: Casting cylinder heads with additively manufactured sand cores and reducing engine emissions

The automotive industry is constantly tapping into new AM applications, as Jochen Wendling's keynote speech on the final day of the anniversary Rapid.Tech 3D event will show. The technologist for inorganic core printing in the light metal foundry at the BMW Group plant in Landshut will report on the large-scale production of additively manufactured inorganic sand cores for the casting of cylinder heads. As the world's first emission-free foundry, the plant is making a decisive contribution to reducing emissions from petrol engines. Jochen Wendling will shed light on the benefits, challenges and quality assurance measures of this innovative process. He will also provide an outlook on how 3D printing of sand cores can be used in the production of chassis parts in the future in order to tap into additional lightweight construction potential for battery electric vehicles.

In addition, BMW will present several examples of its expertise in additive manufacturing in the Rapid.Tech 3D exhibition, including a BMW Z4 and the AM components installed in it. 3D-printed sand cores will be on display as well.

Specialist conference with eight industry and science forums

The topics of the keynote speeches will be expanded on and explored in greater depth in eight industry and science forums at the Rapid.Tech 3D specialist conference. 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 the second day (15 May 2024). On the second day, the Chemistry & Process Engineering, Software, AI & Design and Innovations in AM forums will also be welcoming visitors. The final day (16 May 2024) will see the second part of the Innovations in AM forum, as well as the Mobility and AM Science by Fraunhofer forums.

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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