

Use Cases in Additive Manufacturing

Internationales Forum

2.-3. September 2025

Hochschule Zittau/Görlitz,
Theodor-Körner-Allee 8, 02763 Zittau



Wie bringt 3D-Druck mein Unternehmen wirklich voran?

Ob Ersatzteile on demand, funktionale Prototypen oder individualisierte Serienfertigung: Additive Fertigung bietet konkrete Vorteile für viele kleine und mittlere Unternehmen – wenn Technologie und Anwendung zueinander passen. Doch welche 3D-Druckverfahren sind für meine Produkte geeignet? Wie gelingt der wirtschaftliche Einstieg? Und wo finde ich Partner, mit denen ich gemeinsam Innovationen vorantreiben kann? Das Forum richtet sich an KMU sowie Forschungspartner aus Deutschland, Tschechien, Polen und der Slowakei.

Use Cases, Best Practices & neue Impulse in 3 Bereichen:

- Metall-3D-Druck & Kunststoffanwendungen
- 3D-Druck im Bauwesen
- Additive Fertigung im Gesundheitssektor

Aufruf zur Einreichung von Beiträgen!

Sie setzen 3D-Druck bereits erfolgreich in Ihrem Unternehmen ein oder haben ein innovatives Kooperationsprojekt umgesetzt? Dann zeigen Sie, wie's funktioniert! Reichen Sie Ihren Vorschlag für eine 20-minütige Präsentation ein – gesucht werden praxisnahe Beispiele, die andere inspirieren: Was wird bei Ihnen wie gedruckt? Wann lohnt sich der Einsatz von 3D-Druck? Welche Kooperationen waren entscheidend?

Einreichungsfrist: 27.06. 2025, Vorschläge per Mail: Leonie.Liemich@hszg.de
Mehr Infos: life-and-technology.eu

Use Cases in Additive Manufacturing

International Forum

2–3 September 2025

Zittau/Görlitz University of Applied
Sciences

Theodor-Körner-Allee 8, 02763 Zittau



How Can 3D Printing Truly Advance My Business?

Whether it's on-demand spare parts, functional prototypes, or customized small-series production – additive manufacturing offers tangible benefits for many small and medium-sized enterprises (SMEs), provided that technology and application are well aligned. But which 3D printing processes are best suited for my products? How can I get started in a cost-effective way? And where can I find partners to drive innovation forward? This forum is aimed at SMEs and research partners from Germany, the Czech Republic, Poland, and Slovakia.

Use Cases, Best Practices & New Impulses in Three Key Areas:

- Metal 3D Printing & Polymer Applications
- 3D Printing in Construction
- Additive Manufacturing in the Healthcare Sector

Call for Contributions!

Are you already using 3D printing successfully in your company or have you implemented an innovative cooperation project? Then show us how it works! Submit your proposal for a 20-minute presentation – we are looking for hands-on examples that will inspire others: What do you print, and how? When is the use of 3D printing worthwhile? Which collaborations were key?

Submission deadline: 27 June 2025, Send your proposal via email to: Leonie.Liemich@hszg.de More information: life-and-technology.eu

Use Cases in Additive Manufacturing

Programme*

2nd September 2025

*Subject to changes in the Programme



How Can 3D Printing Truly Advance My Business?

Whether it's on-demand spare parts, functional prototypes, or customized small-series production – additive manufacturing offers tangible benefits for many small and medium-sized enterprises (SMEs), provided that technology and application are well aligned. But which 3D printing processes are best suited for my products? How can I get started in a cost-effective way? And where can I find partners to drive innovation forward? This forum is aimed at SMEs and research partners from Germany, the Czech Republic, Poland, and Slovakia.

How to register & further information?

Register till 29th of August here: <https://events.dresden.ihk.de/b?p=saechsisch-tschechisch-polnische-konferenz-additive-fertigung>

If you have any questions, please contact us by mail: Leonie.Liemich@hszg.de or zahradnik.jiri@dresden.ihk.de

Till 5:00 pm

Arrival

- ARNELL & ARNIO GmbH, Drausendorfer Str. 2, 02763 Zittau

5:00-5:15 pm

Opening

- Jiří Zahradník, Chamber of Commerce Zittau [DE]
- Leonie Liemich, University of Applied Sciences Zittau/Görlitz [DE]
- Thomas Scholz, ARNIO & ARNELL GmbH Zittau [DE]

5:15-6:00 pm

Keynote: Redefining Cycling with Additive Manufacturing

- Martin Rípa, Posedia [CZ]

6:00-6:30 pm

Innovative components for energy efficient battery production- additive manufacturing and digital twin approach

- Rico Fahr, ARNIO GmbH Zittau [DE]

6:30-7:00 pm

Company tour ARNIO & ARNELL GmbH

- Thomas Scholz, Managing Director

from 7:00 pm

Networking & Barbecue

- ARNIO Outdoor Area

Use Cases in Additive Manufacturing

Programme

3rd September 2025



from 8:00 am

Registration for the participants

- Foyer, University of Applied Sciences Zittau/Görlitz, Theodor-Körner-Allee 8, 02763 Zittau

8:30-9:15 am

Networking Breakfast at Fraunhofer IWU

- Dr. Matthias Schulze, Fraunhofer IWU [DE]
- Fraunhofer Institute for Machine Tools and Forming Technology Theodor-Körner-Allee 6, 02763 Zittau

9:15-9:30 am

Short welcome & presentation of the day's programme

- Prof. Sebastian Scholz, Fraunhofer IWU [DE]
- Lecture hall, University of Applied Sciences Zittau/Görlitz, Theodor-Körner-Allee 8, 02763 Zittau

9:30-10:00 am

Keynote: Series production with 3D printing: from prototypes to 20,000 units

- Eduard Ulrich, GKN powder metallurgy, [DE]

10:00-11:00 am

SESSION 1: ADDITIVE MANUFACTURING WITH A FOCUS ON METAL 3D PRINTING

Optimizing 3D-Printed AISi10Mg Aluminium for Structural Use in Rail Vehicles

- Prof. Andrzej Kurek, Department of Mechanics and Machine Design, Faculty of Mechanical Engineering, Opole University of Technology [PL]
- RAWAG (Bode) from Rawicz, [PL]

3D-Metal Printing for car industry

- David Tichý, MSV Liberec s.r.o. [CZ] (tbc)

Additive manufacturing of highly stressed functional surfaces

- Felix Schoch, GSD – Druckgusstechnik GmbH [DE]
- Dr. Arnd Friedrichs, Dr. Friedrichs Unternehmensberatung [DE]

Possibilities of 3D printing of tools for hot forging, hot aluminum extrusion, and aluminum casting with conformal cooling channels.

- Paweł Widomski, PhD, Center for Materials Engineering and Metal Forming, Faculty of Mechanical Engineering, Wrocław University of Science and Technology, Wrocław [PL]
- Tomasz Garniec, Meltio, Linares [ES]
- Włodzimierz Fleischer, Lubusz Metal Cluster, Gorzów Wielkopolski [PL]

Special solutions of valves for liquids, gas, etc.

- Ronny Hausmann, DRUKON GmbH [DE]

11:00-11:30 am

Coffee Break & Discussions

- Foyer

Use Cases in Additive Manufacturing

Programme

3rd September 2025



11:30-12:30 am

SESSION 2: COMBINATION OF DIFFERENT MATERIALS IN 3D PRINTING

Ceramics, Metals, Polymers – Combine Material Properties in a single Printing Process

- Dr. Robert Johne, AMAREA Technology GmbH [DE]

Use Cases of Industrial Plastic & Metal Printing

- Łukasz Kuban, SPES3D, Wrocław [PL]

Mopedix- 3D-printed components for the electric motorcycle of the future

- Jindřich Melichar, Mopedix s.r.o. [CZ]

ProtoPlastMaker 4.0 – a robotic hybrid system for manufacturing large-format 3D prints using polymer granules: possibilities and applications.

- Dr. Karol Miądlicki, Dr. Paweł Herbin – Maritime University of Technology in Szczecin, Faculty of Mechatronics and Electrical Engineering [PL]
- Mateusz Kasproviak - PRINT-ME [PL]
- Dr. Izabela Irska – PRINT-ME, West Pomeranian University of Technology in Szczecin, Faculty of Mechanical Engineering and Mechatronics [PL]

AI4MultiDirectAM – Common Project for Development of Large-Scale Polymer 3D printing

- Michal Amrich, Entry Engineering [CZ]
- Daniel Koleci, Entry Engineering [CZ]
- Dr. Matthias Schulze, Fraunhofer IWU [DE]

12:30-1:30 pm

Lunch Break & Networking

- Foyer

1:30-2:15 pm

SESSION 3: MEDICAL USE CASES OF AM

Spatial Computing and 3D Printing in Neurosurgery

- Dr. Ronny Grunert, University Hospital Leipzig (UKL) and Fraunhofer IWU [DE]

Applied 3D printing in oral and maxillofacial surgery

- Dr. Filip Bašovský, Regional Hospital Liberec, Oral, Maxillofacial and Facial Surgery (CZ)

Use Cases in medical industry

- Daniel Jankovič, COTU [CZ]

Applications of 3D Printing in Dental Technology

- Tobias Damm, HWK [DE]

Use Cases in Additive Manufacturing

Programme

3rd September 2025



1:30-2:15 pm

SESSION 4: 3D PRINTING IN THE CONSTRUCTION INDUSTRY

3D concrete printing at TU Dresden: Lab to Site **Technical University Dresden [DE]**

- Shравan Muthukrishnan, Technical University Dresden [DE]

3D printed Church for Liberec

- Prof. Jiří Suchomel, Technical University Liberec [CZ]
- Vladimír Balda, Technical University Liberec [CZ]

3D printed BUS STOP „Libského“

- Jiří Vítek, ICE Coral 3D Printing, [CZ]

2:15-2:45 pm

Coffee Break and Discussions

2:45-3:30 pm

SESSION 5: CROSS BORDER COOPERATION, CLUSTER & NETWORKING OPPORTUNITIES

"Networking for more economic power? Opportunities and risks" (Cluster B3Dneo)

- Sabine Scholz, neoNET e.V. [DE]
- Dr. Ines Dani, Building3D e.V. [DE]

Lubuski Metal Cluster

- Dr. Karol Miądllicki, Department of Robotics and Control [PL]

Optional workshop offer with cooperation initiation/ informal exchange at SME stands

3:30-4:30 pm

Farewell & journey home

- Foyer



Industrie- und Handelskammer
Dresden



Fraunhofer
IWU



Handwerkskammer
Dresden



Wirtschaftsförderung
Sachsen



Hochschule
Zittau/Görlitz



Dr. Arnd Friedrichs
Unternehmensberatung



life &
technology