Use Cases in Additive Manufacturing

Speaker Profiles

Kick off - 2nd of September

Martin Řípa
Co-Founder, Posedla [CZ]

Martin Řípa is the co-founder of Posedla, a Czech startup pioneering custom-made cycling components through advanced additive manufacturing. With over a decade of experience in business strategy, sales, and international project management, he combines innovation with entrepreneurial leadership to scale technology-driven ventures. At Posedla, he focuses on bridging additive manufacturing with user-centered design, leading the development and commercialization of personalized cycling products such as Joyseat, the world's first fully customized 3D-printed saddle. Recognized among the Top 10 Czech Innovators of 2022, he is interested in partnerships with manufacturers and new 3D printing technologies to further advance mass customization in sports equipment.
"As Co-Founder of Posedla, I focus on bridging innovation and business strategy in additive manufacturing. My role is to lead the development and commercialization of personalized cycling products, bringing together material science, 3D printing technologies, and user-centered design to scale mass customization in sports equipment."

Thomas Scholz - Founder of ARNIO GmbH
Born in Zittau, worked globally and returned to his homeland in order use his experiences to shape the region. He bought a specialized company for tool making and metal forming called "Arno Hentschel GmbH- Metallerzeugnisse und Werkzeugbau" and one of his first actions was to implement a brand name that is understood all over the world: ARNELL was born.
Coming from traditional sheet metal stamping the manufacturing possibilities changed to high effiency stamping and bending technology and include today also waterjet cutting, laser cutting CNC bending and cobot-welding. Combined with additive manufacturing where necessary and beneficial. Having all these different techniques and possibilities he founded ARNIO in 2022 as a kind of engineering thinktank. Dealing with engineering topics from high efficiency, resource saving manufacturing via development of complex AM Parts up to digitalization topics like digital twin and digital product passport.

Thomas Scholz
ARNIO GmbH

Rico Fahr
ARNIO GmbH

Rico Fahr
Born in Zittau he gained professional experience in Dresden, especially in the area of product development. Returning to Zittau he became part of ARNELL in 2021, responsible for flexible and high efficient tool engineering and production. Today ARNIO designs dedicated production equipment for high performance production, combined with minimum waste. Furthermore ARNIO is part of different R&D Projects and cooperations dealing with AM – focusing on design and simulation in order to create sustainable, high performance applications. Another focus is to combine physical and digital world for example by digital twin approach and digital product passport.

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Welcome & Keynote - 3nd of September

Maciej Satora is a research associate at Fraunhofer IWU, combining his engineering background with a passion for impactful moderation. At the Hydrogen Lab Görlitz, he works on hydrogen technologies, waste heat recovery, and sector coupling, while actively shaping the energy transition debate. Fluent in German, English, and Polish, he moderates high-level conferences and forums, turning complex technical topics into clear, action-oriented dialogue.

Maciej Satora
Moderator

Sebastian Scholz
Fraunhofer IWU

Sebastian Scholz serves as the Head of the Fraunhofer Plastics Center Oberlausitz at the Fraunhofer IWU in Zittau and holds a professorship in Function-integrating Plastics Technologies at the University of Applied Sciences Zittau/Görlitz. He leads cutting-edge teaching and research on the fundamentals of plastics technologies, design with plastics and composites, as well as their processing. Under his leadership, the Plastics Center has seen major growth, including the opening of a state-of-the-art extension in November 2022, featuring expanded facilities and advanced equipment for additive manufacturing and sustainable lightweight structures. Prof. Scholz is also active beyond the institute, serving on the board of the Lightweight Construction Alliance Saxony, the Polysax e.V., the National Centre of Competence for Industrial 3D Printing at the Technical University of Liberec, and the International Advisory Body of the Research, Development and Innovation Council of the Czech government to foster strategic research collaboration and stronger economic impact across the Region.

Eduard Ulrich has been with GKN Additive since 2014 and works as Business Development Manager. He is responsible for Binder Jetting and Laser technologies, focusing on applications in the automotive, general industry, and defense sectors.
His special business interests include heat exchangers, nozzles, manifolds, and special tools. GKN Additive itself helps manufacturers adopt and scale metal additive manufacturing by offering end-to-end solutions – from the development of high-performance metal powders to the production of precision 3D-printed components. With its global production network, the company ensures reliable supply, industrial-grade quality, and seamless integration, making additive manufacturing a practical and scalable solution for industrial production. GKN Additive is particularly interested in partnerships that combine technical innovation, industrial implementation, efficiency, series production, and sustainability.

Eduard Ulrich
GKN Powder Metallurgy

Use Cases in Additive Manufacturing

Speaker Profiles

SESSION 1

Paweł Widomski

Wrocław University of Science and Technology [PL]

Paweł Widomski
Wrocław University of Science and Technology is one of Poland's leading technical universities and a pioneer in additive manufacturing – from stereolithography, through metal powder printing, to advanced methods such as WAAM and DED. Together with *Meltio*, a key provider of metal 3D printing technology, we develop innovative solutions and strategies for industry. As part of the *Lubusz Metal Cluster*, we connect academia with the industrial ecosystem, fostering collaboration and knowledge transfer.
I have worked with WAAM technology as part of the ambitious H2020 – Grade2XL project. Currently, I am leading a project focused on 3D printing forging, casting, and extrusion tools with conformal cooling channels using Meltio technology. I am also planning research on 3D printing in space, in collaboration with a team from Cranfield University.
We are open to joint research projects and collaboration in the field of advanced materials research, bridging the gap between science and industrial practice.

Ronny Hausmann
DruKon Druck-Kontrolltechnik GmbH develops and manufactures high-precision valves that meet the highest standards for sealing surfaces, strength, and durability. By leveraging additive manufacturing, functional prototypes and complex geometries can be produced quickly and reliably, enabling customized solutions at the highest quality level.

Ronny Hausmann

DruKon Druck-Kontrolltechnik GmbH [DE]

Arnd Friedrichs

Dr. Arnd Friedrichs Unternehmensberatung [DE]

Arnd Friedrichs
Dr. Arnd Friedrichs Unternehmensberatung advises companies on technology strategies and innovation projects, with a strong focus on additive manufacturing, technology marketing, and cross-industry innovation. The company supports start-ups and SMEs in developing AI-based solutions and in translating research-driven ideas into market-ready products and services.
We are open to cooperation focused on large-scale additive manufacturing and the transformation of ideas, technologies, and AI solutions into market-ready products and services

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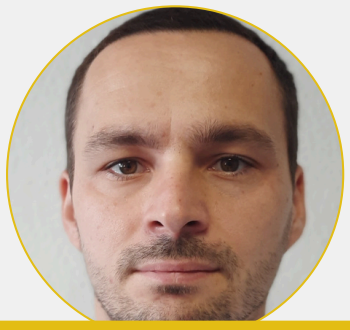
Speaker Profiles

SESSION 1



Jakub Fulka
MSV Systems CZ s.r.o. [CZ]

Jakub Fulka, project manager
MSV Systems s.r.o. is a technology-driven company dedicated to transforming engineering R&D into real-world production solutions. Since its establishment in 1995, MSV has excelled in industrial automation, tube forming, and food-industry applications. It offers tailor-made machines and complete lines that enhance productivity and align with clients' specific needs. MSV drives innovation across four specialized divisions: metal tube processing, plastic tube processing, 3D-printed metal moulds, and tube & hose joining, delivering everything from manual tools to fully automated production lines.
Starting as a 3D-printer operator in 2019 and now a project manager, you bring in-depth experience in AM—especially in applying 3D-printed moulds that integrate with MSV's automation and tube-forming solutions.
We are open to collaborations in product development and process improvement, leveraging MSV's broad product divisions—especially the 3D-printed moulds and automation—to deliver technological and knowledge-based innovations.

Felix Schoch represents the upcoming third generation at G-S-D Gerhard Schoch Druckgießtechnik, a company specialized in high-quality die-casting solutions. Since its founding in 1991, G-S-D has established itself as a reliable partner to the automotive industry and other sectors, known for precision wear parts, advanced surface coatings, and continuous innovation. Felix is positioning himself to expand the company's expertise into additive manufacturing, ensuring that G-S-D continues to combine proven craftsmanship with cutting-edge production technologies for global markets.

Felix Schoch
GSD – Druckgusstechnik GmbH [DE]

Use Cases in Additive Manufacturing

Speaker Profiles

SESSION 2

Michal Amrich
Entry Engineering [CZ]

Michal Amrich – business development; field of design, mechanics, composites and plastics part production.
Entry Engineering is technological company with main field of business in automotive – developing of HW/SW solutions for testing electronics and car infotainment. Providingprofessional personnel to perform testing services.
Our department in Ohrazenice (Turnov) - design office focusing on development projects, engineeringand the application of new technologies. Production of composite parts - small series and custom-made projects. Therefore, we are building our high-scale robotic print technology, which will be mainly applied in molds and models production for lamination.
“By attending in this event, we would like to spread our services of engineering, design and production to potential new partners.”

Daniel Koleci – technologist of composite parts production.
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Daniel Koleci
Entry Engineering [CZ]

Robert Johne
AMAREA Technology GmbH [DE]

Robert Johne - Co-founded AMAREA Technology GmbH
Robert Johne is a materials scientist and multi-material additive manufacturing specialist. He co-founded AMAREA Technology GmbH in 2023, where he serves as CTO. With previous experience at Fraunhofer Singapore and Fraunhofer IKTS.
AMAREA Technology enables functionally graded, multi-material components combining properties from ceramics to metals in a single build, with their MMJ ProX System and related materials and services delivering unique, high-performance parts that were previously impossible or prohibitively expensive. Robert Johne’s expertise spans materials science, multi-material design, application scouting, process automation, and industry–research networking. He is open to customer engagements, feasibility studies, pilot builds, and joint qualification projects.

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Speaker Profiles

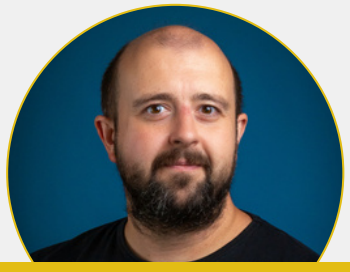
SESSION 2

Matthias Schulze
Fraunhofer IWU [DE]

Embedded in the campus of the Zittau Görlitz University of Applied Sciences, Zittau's branch of the Fraunhofer IWU (Fraunhofer Plastics Technology Center Oberlausitz, FKO) conducts research and development in the fields of plastics processing, additive manufacturing, lightweight construction and hydrogen technologies. As a group leader for Additive Technologies Matthias Schulze is responsible for the development of technologies as Large- Scale Polymer Additive Manufacturing and sustainable process chains for Laser Powder Bed Fusion. The focus of our work is on material optimization, increased efficiency, and functional integration of Additive Technologies. Especially in the triangle of Czech Republic, Poland and Germany we are offering our competencies in bi-lateral projects or direct customer relationships.

Jindrix Melichar is a visionary Czech designer and entrepreneur with over 25 years of experience in creating innovative brands. He is best known as the co-founder of Bushman and Banner Exclusive & Outdoor, and today he leads MOPEDIX, a pioneering company introducing the first Czech SUV e-motorbike. MOPEDIX represents a new dimension of urban and off-road mobility – merging ecology, utility, and purposeful design. The brand's mission is to redefine personal transportation by combining sustainable technology with rugged, practical solutions for everyday use.
As a passionate motorbike enthusiast and creative mind, Jindrix is actively seeking collaborations in the field of additive manufacturing (AM). His aim is to leverage advanced production technologies to optimize design, improve customization, and accelerate the development of sustainable mobility solutions."

Jindrix Melichar
MOPEDIX [CZ]



Karol Miądlicki
Maritime University of Szczecin [PL]

I am a researcher affiliated with the Faculty of Mechatronics and Electrical Engineering at the Maritime University of Szczecin. My work centers on mechatronics, with specific research interests in the machining and additive manufacturing, as well as teleoperation and autonomus systems. Ccompany, Poligraf, is one of Poland's leading manufacturers of filaments for 3D printing. While our history since 1997 has been on connected with paper industry, we pivoted to the 3D world in 2016. We are focused on creating new filaments and developing our ProtoPlastMaker 4.0 project and expanding our technological capabilities for manufacturing large-size parts. My expertise is focused on developing large-scale hybrid manufacturing systems and innovative use of 3D printing in industry (polymers and concrete). We are interested in cooperation in the field of large-format 3D printing applications, innovative uses of filaments, and new developments for print heads.

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SESSION 2

Łukasz Kuban
Spes3D [PL]

Łukasz Kuban is the Technical Director at Spes3D.
“We support our customers throughout the entire product development process – from prototype to mass production. We offer a broad portfolio of additive manufacturing technologies and extensive engineering experience in designing innovative solutions. We particularly interested in industrial applications as well as R&D projects, including opportunities for EU funding and cooperation.”

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Speaker Profiles

SESSION 3

Filip Bašovský

Filip Bašovský
Regional Hospital Liberec, Oral, Maxillofacial and Facial Surgery [CZ]

Our department of oral and maxillofacial surgery in Liberec-CZ specializes in comprehensive care for patients with diseases and injuries affecting the head, face, oral cavity, and jaws. Despite the regional scope of our facility, we continuously strive toincorporate the latest advances in modern medicine. 3D technology and FDM 3D printing have become essential components of our daily practice, enabling us to treat a wide range of traumatological and oncological patients effectively.

Daniel Jankovič - COO of cotu®

Cotu ® is among Europe's leaders in stereolithography. The company shares its expertise gained from its own serial production and provides comprehensive solutions for high-precision industrial 3D printing with smooth surface quality. This includes innovative manufacturing processes, reliable 3D technologies, and durable materials. Cotu helps companies implement this form of 3D printing into their production, optimize workflows, and fully unlock the potential of additive manufacturing.

Daniel Jankovič
COO of cotu® [CZ]

Ronny Grunert
Universitätsklinikum Leipzig und Fraunhofer IWU [DE]

Ronny Grunert is a biomedical engineer and neurosurgeon at the University Hospital Leipzig and the Fraunhofer IWU. He specializes in 3D-printed, patient-specific implants and instruments, combining engineering and medicine to enhance surgical precision. In 2024, he and his team presented their surgical navigation software—integrating real-time 3D imaging—at Apple's headquarters in Cupertino, which was incorporated into the Apple Vision Pro headset, marking a milestone in bringing advanced 3D navigation technology into the operating room.

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Speaker Profiles

SESSION 4

Vladimir Balda

Technical University of Liberec [CZ]

Vladimir Balda

The Faculty of Arts and Architecture of the Technical University of Liberec has long been dedicated to education and research in the field of architecture and construction. The faculty team has expertise in the field of additive manufacturing and 3D printing, especially thanks to active participation in the multi-year research project 3D STAR, focused on the use of 3D printing in construction and architecture.

Our staff focuses on connecting theory with practice, through experimental applications and the development of innovative processes.

The faculty is interested in cooperation with universities, research institutions and companies that deal with research and applications of 3D printing of buildings, and is open to partnerships on new projects in this area.

Shravan Muthukrishnan leads 3D Concrete Printing research group at TU Dresden, Germany. Over the past decade, his research has focused on advancing 3D Concrete Printing technology through a range of academic and industry collaborations. His contributions are evident in numerous publications on topics such as sustainable concrete and active rheology control. Dr. Muthukrishnan is also an active member of the RILEM Technical Committee TC 304-ADC, where he led the analysis of data from interlaboratory studies on the mechanical properties of hardened concrete, with participation from over 30 research institutes globally. The findings of this study provided a foundation for the development of RILEM recommendations and fostered collaboration with standardization bodies such as ASTM, ACI, ISO, and others.

Shravan Muthukrishnan

TU Dresden [DE]

Kristyna Uhrova

ICE Industrial Services a.s. [CZ]

Coral 3DCP is a subsidiary of the Czech industrial automation company ICE Industrial Services, which has been delivering projects worldwide across industries since 2012. Since 2021, the Coral team has developed a globally unique solution for 3D concrete printing. We are among the few companies worldwide capable of printing with locally available materials. Our portfolio already includes several projects in the Czech Republic (a restaurant with a cable car station at the Kopřivná Ski resort in Jeseniky) and abroad we recently printed the first 3D printed house in Luxembourg.We continue to develop both the printer itself and new concepts for construction automation, while also preparing reference projects in the Czech Republic, across Europe, as well as in the USA and Mexico.I have been working with the company since 2022 as an architect

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SESSION 5

Sabine Scholz
neo.NET e.V. [DE]

Sabine Scholz, M.Sc. in Mechanical Engineering, is a co-founder and since 2019 a board member of neo.NET e.V., a non-profit research and transfer association based in Zittau. Since 2002, she has been working as a research associate at the Zittau/Görlitz University of Applied Sciences, managing projects in corporate cooperation, network management, and regional knowledge transfer.
At neo.NET, she is primarily responsible for the Additive Manufacturing technology area. Under her leadership, the cooperation with the Leipzig-based Building e.V. association was established, and the B3Dneo Cluster was founded, connecting companies, research institutions, and start-ups in the field of 3D printing and additive manufacturing. The cluster aims to foster innovation, pool technological expertise, and accelerate the transfer of new manufacturing processes to the region.

Ines Dani has been active in Additive Manufacturing for over 15 years, working in research and network management. She has served as Chairwoman of Building 3D since 2024 and, as of September 1, 2025, holds the Professorship for Generative Manufacturing Technology at HTWK Leipzig.
Building 3D e.V. is a network founded in 2019, dedicated to processes, equipment, materials, and business models across the additive manufacturing value chain. It connects SMEs, research institutions, and associations to explore new applications and highlight the potential of additive technologies for industry. Since January 2024, the network has been cooperating with neo.NET in Lusatia to support companies in applying and advancing additive manufacturing technologies.

Ines Dani
Building3D e.V. [DE]

Włodzimierz Fleischer
Lubusz Metal Cluster [PL]

Włodzimierz Fleischer - Coordination of Lubusz Metal Cluster
The Lubuski Metal Cluster (LMK) unites metal industry enterprises from northern Lubusz Voivodeship, supporting their growth and regional competitiveness since 2008. Recognized by the Polish Agency for Enterprise Development and benchmarked five times, LMK stands out for its high management standards. Founded by 14 companies within the European ClusterNet project, it focuses on collaboration, innovation, knowledge transfer, and internationalization. For its achievements in promoting innovation and vocational education, LMK received an award from the Minister of Economy in 2015.