Christophe Blanc
Materialise

Topic

How Does CO-AM Leverage AI to Capture Metal PBF Flaws – and What Does it Mean for Daily Operations?

Additive Manufacturing (AM) has been driving efficiency and innovation. However, the industry is still struggling to cost-effectively achieve a serial, certified production through quality governance & assurance. This session will focus on how CO-AM leverages AI to identify and mitigate flaws in metal PBF, unlocking the path to regulated industries.

Key topics include risk management, certification, and ensuring repeatability—critical for scaling AM in regulated industries. Real-world examples will showcase how companies produce high-quality parts using Materialise's software backbone.

We'll give an overview of how end-to-end digital processes, from data preparation to quality assurance, can streamline workflows, reduce complexity, and maintain high standards. Lastly, we will deep dive into In-Situ Process-Monitoring, where Materialise tools allow us to analyse metadata alongside image data using AI to identify metal PBF process flaws

About the Speaker

Christophe Blanc is a Technical Business Development Manager with extensive expertise in additive manufacturing processes and related quality governance & assurance. He has been actively involved in the TC/261 committee for additive manufacturing since 2017 and played a leading role in the development of the DIN SPEC 17071 standard. His career began in 2011 at the Fraunhofer Institute in the field of 3D bioprinting. Until 2021, he also worked as an auditor for ISO/ASTM 52920.

His current focus is on strategic customer support, the optimisation of business processes, and the development of customised solutions. With his expertise in market analyses and technical solutions, he makes a significant contribution to the further development of software-supported production processes in additive manufacturing. As a member of the Advisory Board at Verband 3DDruck, Christophe Blanc contributes his experience in a targeted manner to further advance the standards and innovations of additive manufacturing.