

ADDITIVE MANUFACTURING & DESIGN SEMINAR SERIES

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Tuesday, October 10, 2023
11:00 AM – 12:00 PM (ET) | Zoom

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https://psu.zoom.us/webinar/register/WN_WRMHFXN8QHSAIxMzTi3Pfw

Amber Andreaco

Manager, Materials & Process
GE Additive



Mirror Mirror – A 15-year Reflection on Metal Additive Manufacturing

ABSTRACT

While additive manufacturing (AM) has been around in many forms for decades, metal AM has come to the recent forefront with its potential to revolutionize manufacturing in a plethora of industries. And with its proliferation, new information and insights are captured at a rate that often outpaces the ability to share across the industry. Having spent 15 years in metal AM, this talk will address several of these lessons related to material characterization along with common myths and misconceptions such as required levels of material property data and definition of qualifications. It will also touch upon the future challenges, particularly related to material development, machine architectures, data management, and artificial intelligence.

BIOGRAPHY

Amber started her career in GE Aviation in 2005 as part of the Edison Engineering Development Program. Upon graduation in 2008, she joined the Materials Behavior organization, taking ownership of the mechanical property testing and analysis for additive materials. She helped define requirements for additive material qualification. In 2017, Amber joined GE Additive, leading several initiatives for additive material characterization. She currently leads the GE Additive Materials & Process team. Amber holds a Bachelor of Science and Master of Science in Materials Science and Engineering from Carnegie Mellon University and The Ohio State University, respectively.



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