

## ASTM INTERNATIONAL CONFERENCE ON ADVANCED MANUFACTURING

Research to Application through Standardization

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### Value Chain: Sustainability and Economics

In a relatively short time, additive manufacturing has developed from prototyping technology to an operational tooling and manufacturing platform. The ever-present economic drivers along with the rise in global focus on the environmental impact of manufacturing is driving the adoption and implementation of advanced technologies and manufacturing methods, including additive manufacturing.

**Topics of interest include but are not limited to:**

- AM in the circular economy: linking circular material, design, manufacturing, product, and end-of-life phases.
- Value analysis and life cycle assessments of AM materials and processes
- Reprocess, Repurpose, Reuse, and Remanufacturing of recycling practices in AM
- Carbon footprint and overall energy consumption KPIs in comparison to conventional manufacturing
- Impact of AM on resource efficiency, production volumes, supply chain, logistics, inventories, and related waste streams
- Importance of AM design, parameters, materials, and post-processing optimization for parts lifecycle CO2 impact



### Symposium Organizers

- Ramona Fayazfar, Ontario Tech University, Canada
- Marius Lakomic, EOS, Germany
- Sherri Monroe, AMGTA, USA
- Behrang Poorganji, Morf3D, USA



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Research to Standards

ADDITIVE MANUFACTURING