



ICAM26

International Conference on Advanced Manufacturing

Research to Application through
Standardization

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Non-Metallic Materials: Polymers and Composites



amcoe.org/icam2026

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This symposium addresses advancements in polymer and composite additive manufacturing (AM), focusing on material and process standardization, mechanical performance, and testing protocols. Key areas for discussion include design and process advances, testing methodology, simulation, inspection, qualification & certification methods, novel applications, and requirements for a trained workforce. This symposium will also highlight the maturation of polymer and composite additive manufacturing technologies, and how these advances are being deployed to produce complex geometries with functional properties.

Topics of interest include but are not limited to:

- Direct and indirect polymer and composite AM production applications as well as enabling material advances.
- Material property characterization and test methods for feedstock materials including long term material stability in a variety of operating environments and additively manufactured parts.
- Long-term mechanical behavior of additively manufactured polymers and composites, including fatigue, creep, and environmental degradation with emphasis on testing and predictive modeling
- Impact of print and post-process variations on physical, chemical, and mechanical characteristics of additively manufactured parts.
- Printability optimization including formulation and print process optimization
- Design and analysis methods of both product and process including simulation advancements.
- Characterization of defect formation and effects of defects at both product and material levels.
- In-situ measurements for defect detection and process control
- Developing standardized end-to-end workflows for installation qualification (IQ), operational qualification (OQ), performance qualification (PQ) to ensure repeatability
- Workforce training and operator certification
- Certification methods for product design through production
- Sustainability and regulatory challenges in processes and materials
- Emerging polymer technologies including chemistry, filler technology, printer, and post processing
- Highly loaded polymer and composite systems