# ICA/\2023



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# ASTM INTERNATIONAL CONFERENCE ON ADVANCED MANUFACTURING

# **Research to Application through Standardization**

October 30 – November 3, 2023 | Washington D.C.

Submit an Abstract at www.amcoe.org/icam2023

# Industry 4.0: Robotics and Automation in AM

Advanced manufacturing (AM) technologies are the latest evolution of the CAD/ CAM breakthroughs of the last few decades. They have enabled innovation and speed to market though faster prototyping and optimized part geometries. Combining robotics and automation with AM processes is unlocking new production capabilities and scale. Our challenge now is to bring more of this technology to the production line, increasing production efficiency, improving product quality and consistency, reducing labor costs, and enhancing safety. This symposium will bring together experts from robotics, automation, and advanced manufacturing to discuss existing and future technical challenges, share new capabilities, and propose strategies to catalyze change.

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

- Machine Learning (ML)
- New robotics-enabled technologies to Advanced Manufacturing processes
- Advancement Manufacturing technologies that enable robotics to autonomously support upstream and downstream processes. e.g.; Robotics for- material handling; post-print finishing; support material removal
- Robotics for automated testing/inspection
- Robotics and industrial safety technology advancements and implementation challenges
- Robotic and automation technology capabilities for prototyping, testing and commissioning robotics and autonomous systems in production environment.
- Hybrid Manufacturing



## Symposium Organizers

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- Richard Allen, Yaskawa Motoman, USA
- Joe Falco, NIST, USA
- Philip Freeman, Boeing, USA
- Michael Skocik, ARM Institute, USA

