

ASTM INTERNATIONAL CONFERENCE ON ADDITIVE MANUFACTURING

Research To Application Through Standardization

October 31 – November 4, 2022 | Orlando, FL
JW Marriott Orlando Bonnet Creek Resort & Spa

Submit an Abstract at www.amcoe.org/icam2022

Additive Manufacturing for Defense Applications

Additive manufacturing (AM) enables the modernization of current defense systems. The ability to fabricate highly optimized and complex parts helps to further enhance the capabilities of these systems. Additionally, by providing an alternative route to manufacturing hard-to-source spare parts and parts at the point of need (e.g., on-site battle damage repair or on-site manufacturing of temporary spare parts, etc.), AM also helps to improve logistical readiness. As a result, the defense industry has taken the lead in advancing and maturing AM technology. However, existing standards and practices (e.g., commercial standards, military standards, airworthiness processes, and certification practices, etc.) may either be difficult to apply or are just not relevant to AM parts. Thus, new standards and practices need to be developed to facilitate broader and more rapid adoption.

This symposium on the application of AM for the defense industry covers the following:

- Material and process considerations for specific applications
- Applicability of existing military standards for AM applications
- AM for spare or hard to source parts
- Rapid battle damage repair or temporary manufacturing of spare parts on-site
- Future of AM defense industry in the digital age

Symposium Organizers



- Mark Benedict, Air Force Research Laboratory, USA
- Eric Fodran, Northrop Grumman, USA
- Travis Mayberry, Raytheon Technologies, USA
- Katherine Olson, U.S. Army, USA
- Nam Phan, Naval Air Systems Command, USA
- Brandon Ribic, America Makes, USA
- Hector Sandoval, Lockheed Martin, USA



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