ASTM ICAM 2022

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

Symposium Organizers
- **Matthew Di Prima,** FDA, USA
- **Michael Roach,** University of Mississippi Medical Center, USA
- **Guha Manogharan,** PSU, USA
- **David Heard, Stryker,** USA
- Eddie Kavanagh, J&J, Ireland

Application of AM in the Medical Industry

The medical industry continues to be a key sector to take advantage of additive manufacturing (AM) technology. AM's unique capability to design and rapidly fabricate complex geometries economically using a diverse array of materials has enabled the ever-growing adoption of this technology in biomedical applications. Hence, the availability of patient-specific biomedical devices with custom and complex designs are continuing to grow in the market. However, despite these tremendous opportunities that AM offers, the full potential of utilizing AM in the medical industry has yet to be fully explored. Advancements in regenerative medicine, medical device fabrication, medical education, health monitoring, diagnostic tools, and surgical planning are enabling the broader adoption of AM in the critical medical industry. In addition, special attention is required for the standardization, qualification, and certification protocols of these products.

This symposium broadly covers the applications of AM in the medical industry with regards to:
- New materials for biomedical applications
- Design and manufacturing of medical models, prosthetics, and implants
- Performance of additively manufactured biomedical parts
- Post-processing of AM medical devices
- Lattice design and performance
- Advancements in bioprinting
- Role of AM in Medical Education
- Role of AM in COVID-19 response
- AM at the Point-of-Care
- Qualification and certification challenges
- Need for standards and regulations

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Research to Standards
ADDITIVE MANUFACTURING