Application of AM in the Medical Industry

The medical industry is one of the key sectors to take advantage of additive manufacturing (AM) technology. AM’s unique capability to design and rapidly fabricate complex geometries using a diverse array of materials has enabled the ever-growing adoption of this technology in biomedical applications. Despite the tremendous opportunities that AM offers in manufacturing patient-specific biomedical devices with custom and complex designs in orthopedic devices, the full potential of AM to serve the medical sector has not been fully explored. Advancements in regenerative medicine, medical device fabrication, and surgical planning is enabling a broader adoption of AM in the critical medical industry. In addition, special attention is required for standardization, qualification and certification protocols of these products.

This symposium broadly covers the applications of AM in the medical sector on:
- New materials for biomedical applications
- Design and manufacturing of medical models, prosthetics, and implants
- Performance of additive manufactured biomedical parts
- Post-processing of AM medical devices
- Lattice design and performance
- Advancements in bioprinting
- Role of AM in COVID-19 response
- AM at the point-of-care
- Qualification and certification challenges
- Need for standards and regulations

Symposium Organizers
- Matthew Di Prima, FDA, USA
- David Heard, Stryker, USA
- Guha Manogharan, PSU, USA
- Michael Roach, University of Mississippi Medical Center, USA
- Dirk Scholvin, Wright Medical, USA

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