

ASTM INTERNATIONAL CONFERENCE ON ADVANCED MANUFACTURING

Research to Application through Standardization

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Value Chain: Directed Energy Deposition

Directed energy deposition (DED) processes offer many unique capabilities for component manufacturing and repair applications. Many industries, including aerospace, energy, mining, marine, tooling, and construction, have begun realizing the benefits of these processes in recent years, while other industries are still in the nascent stages of adoption.

Topics of interest include but are not limited to:

- Process development and optimization
- Material selection, development, and mechanical performance, multi-alloy characterization
- Applications and industry impact
- Performance in component manufacturing, repair applications, and integration with other AM processes
- Qualification, acceptance, and standards development
- Modeling and process simulation



Symposium Organizers

- Frank Brückner, Fraunhofer IWS, Germany
- Paul Gradl, NASA, USA
- Carl Hauser, TWI, UK
- Filomena Martina, WAAM3D, UK
- Misael Pimentel, NMIS, UK
- Baily Thomas, Boeing, USA



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Research to Standards

ADDITIVE MANUFACTURING