



ASTM INTERNATIONAL CONFERENCE ON ADVANCED MANUFACTURING

Research to Application through Standardization

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

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Directed Energy Deposition Processes and Applications

Directed energy deposition (DED) processes offer many unique capabilities for component manufacturing and repair applications. Many industries, including aerospace, energy, mining, and construction, have begun realizing the benefits of these processes in recent years, while other industries are still in the nascent stages of adoption. This symposium will offer insights into various DED processes and developing business cases that are effective.

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
- Slade Gardner, Big Metal Additive, USA
- Paul Gradl, NASA-MSFC, USA
- Filomeno Martina, WAAM3D, UK
- Badri Narayanan, Lincoln Electric, USA



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