Hepburn and Sons LLC

Hepburn Technologies

Materials and Manufacturing Solutions for Sustainment

Technical Challenge:

Modernization of manufacturing technologies to support the warfighter

Hepburn and Sons Technologies and Solutions Improve Reliability, Maintainability, and Lifecycle of Military Systems:

Metal Surface Treatment/Repair

- Impact Welding
  Enabling in-service repair of conventionally non-repairable structures and materials

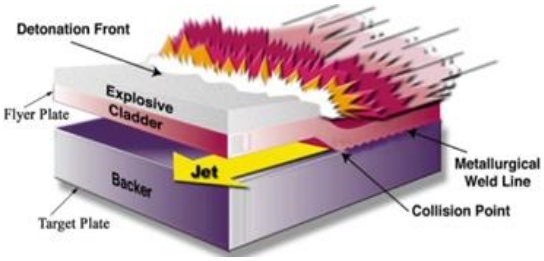
Additive Manufacturing

- Additive Friction Stir Deposition (AFSD)
  Enabling large-scale casting and forging additive manufacturing with superior material properties

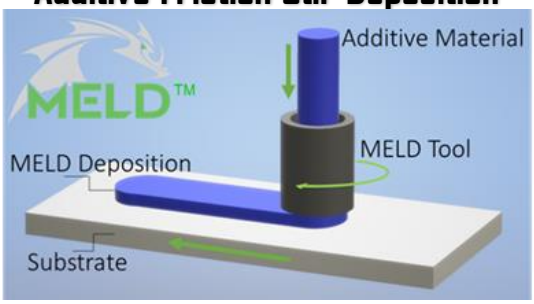
Predictive Tool Development

- Laser Impluse Optimization Toolset
  Using experience and knowledge of laser shock peening to develop a tool for the characterization and optimization of laser impulses

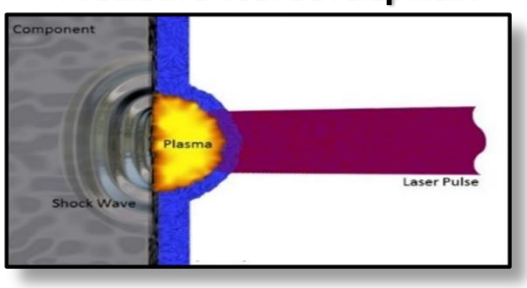
Impact Welding



Additive Friction Stir Deposition



Predictive Tool Development



Technology Development Partners

APPLIED IMPULSE INC.

MELD MANUFACTURING

University of Dayton Research Institute

Government Partners

AFGSC
AFRL
DTRA
NAVAIR

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