ICAM 2023

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Research to Application through Standardization

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AM Applications for Automotive and Heavy Machinery

The automotive and heavy machinery industries continue to advance the use of additive manufacturing (AM) through a broad range of technologies and materials. These industries are looking to AM to enable benefits through redesign and part consolidation of existing components/systems to improve cost, performance, and lead time as well as changing design paradigms to imagine innovative new products. Successful applications have focused on rapid tooling and solutions for low-volume production applications such as customization, but high-volume production and larger components remain a challenge for AM implementation. Barriers to adoption include the cost of AM production tied to large capital investment and low AM build rates, the need for suitable and cost-effective materials, and a lack of data and standards to facilitate adoption with confidence in quality assurance.

Topics of interest include but are not limited to:
- Advances in technologies and software to expedite industry adoption
- Impacts on supply chain and lead times
- Industrialization and scaling of AM for automotive/heavy machinery industries
- Regulatory requirements and standardization needs
- Economics of AM for automotive and heavy machinery industry
- Case studies in both metal and plastic parts
- Challenges and roadblocks that are faced in adoption of AM parts

Symposium Organizers
- Eric Johnson, Eaton, USA
- Aaron Lalonde, U.S. Army, USA
- Ante Lausic, General Motors, USA
- Thierry Marchione, Caterpillar, USA
- Simon Pun, Divergent, USA

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ADDITIVE MANUFACTURING