



# ICAM25

## International Conference on Advanced Manufacturing Research to Application through Standardization

October 6-10 | Las Vegas, NV

### Value Chain: Sustainability and Economics



In a relatively short time, additive manufacturing has developed from prototyping technology to an operational tooling and manufacturing platform and a technology-enabled, enterprise-wide strategy. The ever-present economic drivers along with the rise in global focus on the environmental impact of manufacturing is driving the adoption and implementation of advanced technologies and manufacturing methods, including additive manufacturing.

Environmental and economic outcomes are inextricably linked. Analyses and presentations which track both the added economic value and environmental impacts (quantitatively and/or qualitatively) will provide a clearer business-impact-based understanding of AM practices.

#### TOPICS OF INTEREST INCLUDE BUT ARE NOT LIMITED TO:

- Life cycle assessments and value analysis of AM materials and processes
- Recycling practices: reprocessing, repurposing, reusing, and remanufacturing in AM
- Energy efficiency and carbon footprint comparison with conventional manufacturing
- Resource efficiency impact: materials, energy, gases, chemicals, human labor, and waste streams
- Flexible manufacturing benefits: rapid iteration, reduced lead times, and market responsiveness
- Enterprise-wide AM integration for waste reduction and improved product lifecycle
- Impact of design freedom on product performance, durability, demand-driven production, and minimum production quantity
- Optimization of AM design, parameters, and materials for reduced CO2 emissions
- Standardization efforts for industry-wide life cycle assessments
- Total Cost of Ownership (TCO) reduction through optimized AM systems and processes
- Supply chain resilience and point-of-need manufacturing
- AM applications in part repair

#### Symposium Organizers

- **Angeline Goh**, Shell, The Netherlands
- **Marius Lakomic**, EOS, Germany
- **Taisia (Asya) Lou**, The Boeing Company, USA
- **Sherri Monroe**, Additive Manufacturer Green Trade Association, USA
- **Behrang Poorganji**, Nikon AM Synergy, USA

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an abstract

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