

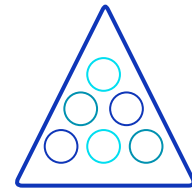


ICAM25

International Conference on Advanced Manufacturing Research to Application through Standardization

October 6-10 | Las Vegas, NV

Value Chain: Feedstock Characterization, Specification, and Reuse



Additive manufacturing (AM) feedstocks are available for a broad range of material types and come in various forms (e.g., powder, wire, filament, inks). New offerings are continuously introduced to the market with varied and unique characteristics. In some cases, the impact of feedstock characteristics on the process and part quality are not fully understood quantitatively. Therefore, a proper understanding of AM feedstock characteristics and the quantification of their performance during manufacturing is essential for the production of AM parts with repeatable quality, be it for fresh or reused feedstock materials. New characterization methods, acceptance criteria, and standards need to be developed for the complete and reliable characterization of feedstock materials.

TOPICS OF INTEREST INCLUDE BUT ARE NOT LIMITED TO:

- Influence of feedstock characteristics on the final part quality
- Advances in feedstock characterization methods and technologies
- New materials and novel production techniques for AM feedstock
- Economics and cost models of AM feedstock
- Developments/requirements for feedstock storage, handling, conditioning, and reuse strategies
- Developments in AM feedstock sustainability
- Standardization needs for AM feedstock
- Qualification processes for AM feedstock suppliers
- Customization of traditional (off the shelf) feedstock compositions for AM
- Metrics for feedstock qualification based on industry sector
- Simulations of feedstock performance characteristics (i.e., flowability, spreadability, rheology, etc.) and influence on AM process results.

Symposium Organizers

- **Ronald Aman**, Amaero, USA
- **Javier Arreguin**, AP&C, a Colibrum Additive company, Canada
- **Martin Dopler**, Metalpine, Austria
- **José Muñiz**, Equispheres, Canada
- **Amir Nobari**, Tekna, Canada
- **Roger Pelletier**, National Research Council Canada, Canada
- **Paul Prichard**, Oak Ridge National Laboratory, USA

Submit
an abstract

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