

## – Call for Papers –

A Symposium on

**Your Symposium Name**

Sponsored by the ASME Manufacturing Engineering Division's

*Manufacturing Equipment & Automation Technical Committee*

2027 ASME International Manufacturing Science & Engineering Conference (MSEC)

June 21 – June 25, 2027, Hosted by Oregon State University in Corvallis, Oregon

### Technical Focus

As technology advances and becomes more cost-effective, metal additive manufacturing (AM), is likely to play an increasingly important role in various industries including aerospace, automotive, medical, defense, and more. Metal AM delivers complex metal structures with excellent physical properties using a wide range of industrial materials, such as titanium, stainless steel, Inconel, superalloys, and refractory metals. However, the lack of fundamental understanding of the metal AM processes has made it challenging to control the quality of the product and thus thwarted the progress in the adoption of metal AM. Recent advancements in metal AM expanded the processes' capabilities to fabricate AM materials by hybrid techniques, 4-D AM of functional metal alloys, 5-D AM, and beyond. This symposium will report the latest progress in all aspects of metal AM, such as new metal AM processes and systems, process control and development, characterization, process-structure-property relationships of AM, numerical tools, related simulation, and modeling. This symposium expands beyond traditional 3-D AM techniques to encompass new metal AM processes and systems for functional materials and structures, leveraging AM and hybrid manufacturing to enable metal fabrication beyond 3-D. Authors are encouraged to submit drafts related to metal AM that may contribute to improving the product quality, reducing the cost and risk of adopting metal AM, or new applications of metal AM. Authors from government, academia, and industry are all encouraged to participate. Specific topics of interest include, but are not limited to: Smart manufacturing, i.e., involving the use of information, automation, computation, software, sensing, and networking technologies, has the potential to revolutionize the manufacturing industry. Specific topics of interest include, but are not limited to:

- Development of metal AM processes, materials, systems, or hybrid processes: 3-D, 4-D, 5-D, and beyond.
- AM material and mechanical characterizations: morphological, size distribution, composition, and thermal properties of metals including structural, functional, refractory, and superalloys.
- Simulation, modeling, and process-structure-property relationships using experimental and/or computational approaches.
- AM process planning: scan path planning, speed/power synchronization, material reduction, scanning strategies, heat-assisted fabrication, etc., and their effects on part quality/performance.

### Important Dates (tentative and subject to change)

Submission of abstract for review .....	October 16, 2026
Submission of full manuscripts for review .....	October 30, 2026
(Possible extension of the full manuscript deadline) .....	November 13, 2026
Notification of paper acceptance.....	January 29, 2027
Submission of revised papers for review .....	February 19, 2027
Notification of acceptance for revised papers .....	February 26, 2027
Final paper submission .....	March 26, 2027
Early-bird registration .....	March 30, 2027
Author registration deadline .....	April 16, 2027

- Submissions will only be accepted via the conference website: <https://event.asme.org/MSEC/>.
- We accept full papers (7-10 pages), brief papers (4-5 pages), and abstract-only presentations (industry presenters only).
- The presenting author must **register** by **April 16, 2027**, or the paper will be withdrawn from the conference proceedings.
- **High-quality MSEC 2027 papers will be channeled to an ASME journal for fast-tracked review and publication.**
- Accepted papers can later be submitted for review to any ASME journal, such as the *ASME Journal of Manufacturing Science and Engineering* or the *ASME Journal of Micro and Nano Science and Engineering*.

### Additional Symposium Activities

To highlight advancements in this technical area, symposium organizers will:

- Invite keynote speaker(s) for the symposium
- Organize a review paper for the symposium

### Organizers

Dr. Wonder Joe, University of Illy Chico, Chico, IL, USA, [fessor@illy.edu](mailto:fessor@illy.edu)

Dr. Pappa Johns, Vtech University, City, State, USA, [johns@vu.edu](mailto:johns@vu.edu)

Dr. Mose Strong, Tech Company, City, State, USA, [strong@tc.com](mailto:strong@tc.com)

Dr. Elise Shaw, Ion State University, City, State, USA, [eshaw@isu.edu](mailto:eshaw@isu.edu)

**Commented [DQ1]:** Name of MED technical committee: <https://www.asme.org/get-involved/groups-sections-and-technical-divisions/technical-divisions/technical-divisions-community-pages/manufacturing-engineering-division#med-technical-committees>

**Commented [DQ2]:** A short synopsis of your symposium's technical focus

**Commented [DQ3]:** Topics list in bullet points that indicate the breadth and scope of the symposium

**Commented [DQ4]:** Keep this section and do not change

**Commented [DQ5]:** Additional Symposium Activities are really optional (remove this section if there are not additional activities)

**Commented [DQ6]:** Max organizers 4 (5 if organizers from industry are included). Please try to keep the format consistent. One-page limit.

The conference is collocated with NAMRI/SME's 55<sup>th</sup> North American Manufacturing Research Conference (NAMRC55) and the JMSE International Conference on Leading Edge Manufacturing/Materials & Processing (LEM&P), each of which will have separate call for papers. Submission of the same paper to more than one conference is not permitted.