

# — Call for Papers —

## A Symposium on **Advances in Nontraditional Manufacturing Processes**

Sponsored by the ASME Manufacturing Engineering Division's  
*Manufacturing Processes Technical Committee*  
*Nano/Micro/Meso Manufacturing*

2020 ASME International Manufacturing Science and Engineering Conference (MSEC)\*  
June 22-26, 2020  
Cincinnati, Ohio

Hosted by the University of Cincinnati, College of Engineering and Applied Science

### Technical Focus

Nontraditional Manufacturing (NTM) processes provide attractive alternatives for machining complex geometry in the advanced, high-strength and temperature-resistant materials being used in industry today. NTM processes rely on mechanisms other than direct mechanical contact between the cutting tool and workpiece, and their application creates a unique set of technical problems to be solved. This symposium will focus on state-of-the-art research on Meso/Micro/Nano-NTM processes and their applications. Research of interest includes: new NTM process development; analytical, mechanistic, and numerical modeling; experimental studies; and process monitoring and control. Specific topics of interest include, but are not limited to:

- Electro discharge/Electrochemical Machining (EDM/ECM)
- Ultrasonic Machining (USM)
- Abrasive/Water Jet Machining(A/WJM)
- Surface Processing (Coating, Texturing)
- Applications in Additive Manufacturing/Tooling and Fixturing
- Environmental and Safety Issues in NTM manufacturing
- Industrial Applications of NTM manufacturing
- Other non-traditional machining methods and their applications.

### Paper Submission

Authors are encouraged to submit an abstract and full manuscript for review by **November 15, 2019** via the conference website. Final revised manuscripts must be submitted by **March 26, 2020**. The copyright transfer form must be filled out by March 19, 2020 and the presenting author must pre-register by **April 15, 2020** or the paper will be withdrawn from the conference. **No papers are to be submitted to the organizers; submissions will only be accepted via the conference website at <https://event.asme.org/MSEC/>.**

All papers accepted by MSEC2020 can be further submitted to any ASME journals, such as the highly prestigious Journal of Manufacturing Science and Engineering, for consideration of archival publication. In addition, high quality MSEC2020 papers will be automatically channeled to relevant ASME journals for fast-tracked publications.

### Additional Symposium Activities

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

- work to attract a high profile international keynote speaker
- organize a special issue in the ASME Journal of Manufacturing Science and Engineering or ASME Journal of Micro and Nano-Manufacturing
- organize a state-of-the-art paper that will be the lead article in the special issue

### Organizers:

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\* The conference is collocated with NAMRI/SME's 48th North American Manufacturing Research Conference (NAMRC48) and LEM&P (Leading Edge Manufacturing / Materials and Processing) by The Japan Society of Mechanical Engineers (JSME), which will have a separate call-for-papers. Please note that submissions of the same paper to more than one conferences are not permitted.