— Call for Papers —
A Symposium on
Advances in Nontraditional Manufacturing Processes
Sponsored by the ASME Manufacturing Engineering Division’s
Manufacturing Processes Technical Committee
2017 ASME International Manufacturing Science and Engineering Conference (MSEC)*
June 4-8, 2017
University of Southern California

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 macro-, micro-, and 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)
- Magnetic Field-assisted Machining
- Hybrid Manufacturing (Vibration-assisted EDM, Electrochemical Mechanical Polishing, Electro discharge Grinding)
- Surface Processing (Coating, Texturing)
- Rapid Prototyping/Manufacturing/Tooling
- Environmental and Safety Issues in NTM manufacturing
- Industrial Applications of NTM manufacturing
- Other non-traditional machining methods

Paper Submission
Authors are encouraged to submit an abstract and full manuscript for review by November 03, 2016 via the conference website. Final revised manuscripts must be submitted by March 08, 2017. The copyright transfer form must be filled out and the presenting author must pre-register by April 06, 2017 or the paper will be withdrawn from the conference. Authors may also consult www.asme.org/divisions/med/call/ for updates. **No papers are to be submitted to the organizers; submissions will only be accepted via the conference website at www.asmeconferences.org/msec2017.**

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

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

Organizers:
Dr. Murali M. Sundaram, University of Cincinnati, Cincinnati, OH, USA, Ph: (513) 556-2791, murali.sundaram@uc.edu
Dr. Zhigang Wang, MAKINO, Mason, OH, USA, Ph: (513) 573-4419, Zhigang.Wang@makino.com

*The conference is collocated with NAMRI/SME’s 45th North American Manufacturing Research Conference (NAMRC45) and JSME’s International Conference on Materials and Processing (ICMP 2017), both of which have a separate call-for-papers. Please note that submissions of the same paper to more than one conference are not permitted.