

— **Call for Papers** —
A Symposium on
**Advances in Competitive Manufacturing Engineering and Operational
Excellence**

Sponsored by the ASME Manufacturing Engineering Division's
Manufacturing Systems Technical Committee
2019 ASME International Manufacturing Science and Engineering Conference (MSEC)*
June 10-14, 2019
Erie, Pennsylvania
Hosted by Pennsylvania State University, The Behrend College

Technical Focus

This symposium is proposed as a publishing venue for high quality research work intended to study the complex relationship between business and manufacturing. Example of such work: innovative manufacturing processes, manufacturing systems, modelling and simulation, optimization and their impact on quality, productivity, and gaining and sustaining a competitive edge. Research work that address transformations such as lean, agile, leagile, six-sigma, TPM, JIT, TQM, etc. is of special interest to this symposium. Cost savings, metrics, maturity trackers, motivations, understanding market drivers, as well as scope and limitations are expected to be addressed. As an example the impact of cyper-physical and smart manufacturing on product quality, cost and time savings, and how this will help to overcome market pressure will be addressed. Topics include research to engage leadership with Operational Excellence through strategic alignment and visual management and identification of the right Operational Excellence tools. Research work intended to develop proactive techniques(systems) to sustain competitiveness, workforce development and manufacturing strategies, market analysis, and finally curriculum innovation targeting this area will also be addressed. All specific topics of interest include, but are not limited to:

- Manufacturing system transformation.
- Proactive techniques.
- Impact of Cyper-physical and smart manufacturing infra-structure on the manufacturing competitiveness/quality.
- Impact of Modelling and simulation.
- Impact of advances in manufacturing system.
- Impact of Current advances in operation, enterprise, and supply chain management.
- Market analysis from a manufacturing prospective.
- Issues in collaborative manufacturing.
- Modelling and Evaluation of opportunity loss/gain in manufacturing.
- Curriculum and workforce development.
- Innovation and Culture Transformation.
- Technology Excellence.
- Lean Transformations.
- Operational Excellence.

Paper Submission

Authors are encouraged to submit an abstract and full manuscript for review by **November 02, 2018** via the conference website. Final revised manuscripts must be submitted by **March 15, 2019**. The copyright transfer form must be filled out by March 8, 2018, and the presenting author must pre-register by **April 05, 2019**; 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/msec2019/.**

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:

Dr. Mohamed A. Gadalla, Alabama A&M University, Normal, Alabama,256-372-5891 e-mail: mohamed.gadalla@aamu.edu
Dr. Sampson. Gholston, The University of Alabama in Huntsville, Huntsville, Alabama, 256-824-7310, e-mail: gholsts@uah.edu
Dr. Ahmed Soliman, director at Benchmark Electronics, Huntsville, Alabama,256-503-5894,e-mail:
ahmed.soliman@bench.com

* The conference is collocated with NAMRI/SME's 47th North American Manufacturing Research Conference (NAMRC47), which will have a separate call-for-papers. Please note that submissions of the same paper to more than one conferences are not permitted.