— Call for Papers —

A Symposium on

Advances in Quality, Reliability, and Continuous Improvement in Manufacturing Development and Execution

Co-sponsored by the ASME Manufacturing Engineering Division's
Manufacturing Systems Technical Committee and
Quality & Reliability 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

The quality and reliability have always been the key characteristics and performance indicators of manufacturing. Significant new advances and progresses, such as on the principles, methodology, computer simulation, and applications, have been made by industrial practioners and academic researchers. This symposium will focus on the research, development, and application efforts addressing the advancement of quality engineering, reliability engineering, lean methodologies, continuous improvement in manufacuturng processes. Presentations in this session will portray the latest developments in the principles, practices, tools, processes, and applications. Specific topics of interest include, but are not limited to:

- Innovative visions on manufacturing quality and reliability
- Strategies of manufacturing quality assurance in the integration of product development
- New methods and tools of quality and reliability engineering
- Innovations in algorithms and models of quality and reliability engineering
- New approaches of data measurement and analysis in quality and reliability engineering
- New concepts of total quality management and their applications
- Trends in failure analysis of manufacturing processes, equipments, and systems
- Reliability-based optimization and robustness in manufacturing process development
- Reliability design for optimized throughput of manufacturing operations
- Model-based quality control for manufacturing processes
- Descrete event simulation for improved manufacturing quality and productivity
- Optimization of quality and reliability for development time and cost of manufacturing
- Comprehensive approaches of problem solving in manufacturing operations
- Integration of lean manufacturing and quality engineering
- New approachs of six sigma and lean product development for Manufacturing
- Lean six Sigma, application and improvement methods in Manufacturing

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, 2018**. The copyright transfer form must be filled out 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 including honorarium
- organize a special issue in the ASME J. of Manufacturing Science and Engineering
- 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 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.