

Call for Papers

for a Symposium on

Sustainable Nanomanufacturing

Sponsored by the Life Cycle Engineering and the Nano/Micro/Meso Manufacturing
Technical Committees of the ASME Manufacturing Engineering Division

2010 ASME International Conference on Manufacturing Science & Engineering (MSEC)
October 12-15, 2010
Erie, PA

Technical Focus

Nanomanufacturing comprises phenomena and processes at the nanoscale, including the development of processes to support nanotechnology advancement. While nanotechnology will lead to myriad benefits, concerns have been raised about concomitant life cycle societal and environmental impacts. Papers are invited that present the development of methods, tools, and technologies for sustainable nanomanufacturing. The goal of this symposium is to provide a forum for state-of-the-art research of academic and industrial relevance for i) identifying, measuring, analyzing, and reducing the potential risks of nanomanufacturing and ii) the development of nanotechnologies (processes and products) that sustain/improve human health and ecosystems. Papers should include novel theoretical contributions or applications. Papers from the industrial sector or that include applications of scientific knowledge from non-manufacturing fields are strongly encouraged.

Topics of interest to sustainable nanomanufacturing include, but are not limited to:

- Energy-efficient nanoprocessing
- Micro-scale energy production
- Nanoparticle toxicology
- Life cycle analysis of nanotechnology
- Worker health and safety concerns
- Point-of-use production
- Nanomanufacturing scale-up
- Assessing nanotechnology risks
- Reduction of materials and wastes
- Nanomanufacturing policy issues

Paper Submission

Authors are encouraged submit an abstract by **February 1, 2010** via the conference website: www.asmeconferences.org/msec10. Draft manuscripts must be submitted by **March 30, 2010**. The copyright agreement form must be submitted by **July 15, 2010**. The final manuscript and the Agreement to Present Paper at MSEC 2010 form must be submitted by **August 15, 2010**. *Authors should consult the conference website for updates.* No papers are to be submitted to the organizers; submissions will only be accepted via the conference website. For further information about the symposium, please contact one of the co-organizers listed below.

Symposium Organizers

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