



Call for Papers

Special Issue on Grinding Technology – Commemorating the Scientific Contributions by Professor Stephen Malkin

This special issue is being dedicated to the memory of Professor Stephen Malkin. To honor his significant contributions to the field of grinding technology we are seeking papers that review his work, are inspired by, or are based on his findings and application of his theories. Grinding technology has a high relevance in the industry as it produces high-quality and high-value products. This special issue will focus on how abrasive processes (loose or fixed) add value through enhanced product functionality, integrity, and sustainability. In addition, new process design, simulation of physical mechanisms, and new applications possible through enhanced abrasive machining are of interest. Researchers in this field are invited to share their research with a large audience in this special issue of the *ASME Journal of Manufacturing Science and Engineering*.

Topics of interests include but are not limited to:

- Enhancement of product life or performance through grinding
- Grinding of ductile and brittle materials
- Grinding of non-traditional materials; biomaterials, high performance alloys, glasses and hard ceramics, etc.
- Tribological effects
- Grinding mechanics
- Sustainability of grinding processes
- Novel or hybrid grinding processes
- Multi-scale/multi-physics modelling and analysis of grinding and abrasive machining processes

Relevant processes include but are not limited to:

- Simulation and enhanced understanding of grinding processes and mechanisms
- Design of precision machines for grinding
- Grinding wheels and dressing tools
- Abrasive flow machining and abrasive water jet processes for high value manufacturing
- Grinding and abrasive machining monitoring and control
- Micro grinding and abrasive micromachining
- Grinding of electronic materials
- Industrial case studies that demonstrate the application of fundamental theories of grinding

Manuscripts are due **March 31st, 2017** and publication of the Special Issue is scheduled for **December 2017**.

Submission Guidelines

Please contact the guest editors responsible for your region prior to submission. Once approved by the guest editors, papers should be submitted electronically to the Journal at <http://journaltool.asme.org>. If you already have an account, login as author and select **Submit Paper** at the bottom of the page. If you do not have an account, select **Submissions** and follow the steps. In either case, at the **Paper Submittal page**, select the **Journal of Manufacturing Science and Engineering** and then select the special issue **Grinding Technology – Commemorating the Scientific Contributions by Professor Stephen Malkin**.

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