



THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
CALL FOR PAPERS

8th SYMPOSIUM ON
ELECTRIC, MAGNETIC AND THERMAL PHENOMENA IN
MICRO AND NANO-SCALE SYSTEMS
ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS
Location: Vancouver, British Columbia
November 12-18, 2010

The Fluid Mechanics Technical Committee of the Fluids Engineering Division of the ASME and the Materials Processing Technical Committee of the Materials Division are jointly sponsoring the 8th Symposium on the "Electric, Magnetic and Thermal Phenomena in Micro and Nano Scale Systems" for the 2010 ASME International Mechanical Engineering Congress-IMECE. The purpose of this Symposium is to bring together researchers from academia, industry, and government to promote further development in this broad field. This Symposium provides a platform to report the latest developments in the use of Electric and Magnetic Phenomena for the design and optimization of micro-devices for a wide variety of mechanical, chemical and biological applications.

• Micro-analytical systems • Transport in biological and molecular systems • Electric and magnetic fields for fluid transport • Electrokinetic phenomena • Dielectrophoresis and Magnetophoresis • Ferrofluids, Magneto- and Electro-Rheological fluids • Electro and Magneto-Mechanics of Colloids and Suspensions • Measurements and on-line diagnostics • Electrochemical machining • Electric and magnetic fields for mechanical cleaning and finishing. Topics of interest include but are not limited to:

- *Design*
- *Performance*
- *Characterization*
- *Modeling*
- *Materials*
- *Applications*

Interested researchers are invited to participate in the Symposium. Prospective authors are requested to submit an abstract by March 12, 2008 at <http://www.asmeconferences.org/congress2010> using ASME IMECE web based tool box and uploading the abstract. The areas of interest can be viewed at <http://www.asmeconferences.org/congress2010/CallForPapers.cfm>. If any participant would like to publish a full length paper in the Proceedings the manuscript will undergo a web based review process, and accepted papers will be published in CD-ROM format available at the meeting. If so requested papers will be considered for publication in the Journal of Fluids Engineering after the regular review process.

DEADLINE SCHEDULE

Abstract due:	March 1, 2010
Abstract acceptance notification:	March 29, 2010
Draft papers due:	May 31, 2010
Author Notification/Instructions:	July 19, 2010
Final paper submission:	August 19, 2010

ORGANIZERS

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