



The American Society of
Mechanical Engineers

CALL FOR PAPERS FOR A FORUM

Microfluidics 2010

FLUID ENGINEERING IN MICRO- AND NANOSYSTEMS

*Sponsored by ASME Fluid Engineering Division and held jointly with MEMS subdivision
2010 International Mechanical Engineering Congress & Exposition, Vancouver, Canada*

The Micro/Nanofluidics 2010 forum provides a means of reporting the latest developments in the uses of fluid for micro-and nano-devices in mechanical, chemical and biological applications across research and industry. Topics of interest include, but are not limited to:

- Micro-total-analysis systems (MicroTAS) and lab-on-a-chip applications;
- Transport in biological and molecular systems;
- Fluid mechanics issues in micro-heat engines, micro-fuel cells, other micro-power sources, and micro-propulsion;
- Electrokinetic, electrohydrodynamic, and magnetohydrodynamic modeling and applications;
- Fluid handling systems;
- Flow and transport diagnostic and measurement techniques;
- Multi-component and multi-phase flow;
- Complex fluids and nano-particles;
- Micro- and nanoscale thermofluid science and devices;
- Fundamental flow phenomena in micro- and nanosystems;
- Optics and photonics in micro-and nanofluidic systems;
- Biologically enabled microfluidics;
- Sensors and transducers for microfluidic applications.

Fluid Engineering-related papers are encouraged to be submitted to Track 10 while device-focused papers are encouraged to be submitted to Track 13. Prospective authors should refer to the following schedule for submissions. Authors are directed to the ASME congress website (<http://www.asmeconferences.org/congress2010/>) for updated deadlines and required on-line submission guidelines.

Publication Schedule

Abstract Submission	March 1, 2010
Draft Paper Submission	May 31, 2010
Final Paper Submission	August 19, 2010

Organizers

Topic Chair: Peter Huang, Mechanical Engineering, Binghamton University, (607) 777-2071, phuang@binghamton.edu

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