

Call for Papers: ASME Journal of Nanotechnology in Engineering and Medicine
<http://asmedl.org/NANO>

Special Issue: 11th International Conference on Nanochannels, Microchannels, and Minichannels.

The 11th ASME International Conference on Nanochannels, Microchannels, and Minichannels (ICNMM) will be held June 16-19, 2013 in Sapporo, Japan. The Conference is intended to provide a platform for researchers to exchange information and identify research needs in this emerging area encompassing micro thermal systems, MEMS, microfluidics, or bio-medical applications. Traditionally, the ICNMM conference has been collocated with the ASME summer Heat Transfer Conference or the ASME Fluids Engineering Conference.

This special issue of the ASME Journal of Nanotechnology in Engineering and Medicine will showcase original contributions and review papers presented at the 2013 Conference on Nanochannels, Microchannels, and Minichannels. Also welcome are manuscripts of authors who could not attend the conference but are working on related topics.

This special issue will feature cutting-edge research in the following research areas related to mini, micro, and nanoscale thermofluid devices and systems:

- Single-phase gas or liquid flows;
- Two-phase flows;
- liquid-to-vapor and vapor-to-liquid phase change;
- electronics cooling;
- electrokinetic flow;
- transport phenomena in fuel cells;
- thin films, interfacially-driven flow, and wettability control;
- micro/nanostructures for heat transfer enhancement;
- biomedical and lab on a chip applications;
- novel measurement techniques;
- analytical modeling and numerical simulation of transport phenomena;
- nuclear applications;
- mixing and chemical reactions.

Review papers that summarize the state of the field at the time of the conference are desired. Standard research articles as well as brief communications are also welcome.

Information on the review process: All the manuscripts submitted for this special issue will be subjected to a strict peer review process to ensure the highest standards of quality. Please indicate in your cover letter that the submitted manuscript has not been published previously, is not under review by any other journal, and will not be submitted elsewhere before a final decision is made by JNEM.

Manuscript submission process and timeline

1. Manuscripts must be prepared according to the Journal's guidelines, available at <http://journaltool.asme.org/Content/AuthorResources.cfm>
2. Submit your manuscript in PDF format online at the ASME Journal Tool website: <http://journaltool.asme.org> (select the special issue for your paper)
3. Important Dates

Notification to the lead editor of your intent to submit: June 30, 2013 (optional)

Manuscript Due: August 15, 2013

Authors Notification of Acceptance: November 15, 2013

Publication Date: January 15, 2014

Lead Editor for the Special Issue: Prof. Daniel Attinger, Iowa State University Ames (IA – USA), attinger@iastate.edu

After a 2001 PhD at ETH Zurich and faculty positions at Stony Brook and Columbia University, Attinger is since 2011 Associate Professor at Iowa State University. He has produced about 90 journal and conference papers, and four US and international patents. He has given seven keynote lectures at international heat transfer and microfluidic conferences, and more than 50 invited talks in America, Asia and Europe. Attinger is a member of the Nanoengineering Council of the American Society of Mechanical Engineers, where he co-chairs the 2013 International Conference on Micro, Nano and Minichannels. He is the recipient of the ETH Zurich medal for outstanding Ph.D. thesis (2001), an NSF CAREER award for young investigators (2005), and the ASME ICNMM Outstanding Researcher Award (2012). The first three PhD graduates of Attinger's lab have obtained tenure-track faculty positions at research universities. Attinger's experimental and numerical research is on multiphase microfluidics, i.e. the dynamical behavior of several fluids or phases constrained by a micro-geometry. Applications of Attinger's research address a wide territory of societal issues, from bloodstain pattern analysis in forensics to thermodynamically efficient multiscale surfaces for energy conversion.



Co-Editor for the Special Issue: Prof. Ali Beskok, Old Dominion University, Norfolk (VA-USA), abeskok@odu.edu

Prof. Ali Beskok received his B.S. in Mechanical Engineering from Middle East Technical University, Ankara, Turkey in 1988. He received an MS degree in Mechanical Engineering from Indiana University Purdue University in Indianapolis in 1991, and M.S. and Ph.D. degrees from Princeton University, Mechanical and Aerospace Engineering in 1994 and 1996, respectively. Dr. Beskok was a Visiting Scholar at Brown University, Center for Fluid Mechanics from 1994 to 1996, and a Post-Doctoral Research Associate at Massachusetts Institute of Technology, Research Laboratory of Electronics from 1996-1998. He joined Texas A&M University Mechanical Engineering Department as an Assistant Professor in 1998, and became an Associate Professor in 2004. In 2007, he moved to Old Dominion University, Mechanical and Aerospace Engineering Department as the Batten Endowed Chair Professor of Computational Engineering. He is the founding director of the ODU Institute of Micro and Nanotechnology.

