

Mini Symposium MS4

Microfluids

Chair: P. Tabeling (France)

Co-Chair(s): R.J. Adrian (USA), J. Santiago (USA)

Introductory Lectures

Paper ID	Title	Authors
MS4I_12960	Slip, Patterns, and other small Things in Microfluidic Systems	Patrick Tabeling, A. Dodge, P. Joseph, C. Jullien, L. Menetrie, H. Willaime
MS4I_12961	Electrokinetic Flow Instabilities in Microfluidic Systems	Juan G. Santiago
MS4I_12976	Miniaturization of Explosive Technology and Microdetonics	D. Scott Stewart

Contributed Papers

Paper ID	Title	Authors
MS4L_10723	Plane Poiseuille Flow in a Rarefied Gas with General Boundary Conditions	Carlo Cercignani, M. Lampis, S. Lorenzani
MS4S_10971	Water Flows in Copper and Quartz Nanochannels	Anna Kucaba-Pietal, Z. Walenta, Z. Peradzynski
MS4L_11437	A Second-order Slip Model for Early-transition-regime Flows	Nicolas G. Hadjiconstantinou
MS4L_11604	Direct Measurement and Simulation of Apparent Slip Velocities in Sub-micron-scale Flows	Peter Huang, Kenneth S. Breuer
MS4L_11607	Theoretical and Experimental Study of Microchannel Blockage Phenomena	Eiichiro Yamaguchi, Ronald J. Adrian
MS4L_11777	Induced-Charge Electro-Osmosis: Theory and Microfluidic Applications	Todd M. Squires, Martin Z. Bazant
MS4S_12047	Using Microfluidics to Investigate Reaction-diffusion Phenomena in Simple Flows	Laure Menetrier, Fridolin Okkels, Charles N. Baroud, Jean-Baptiste Salmon, Patrick Tabeling

MS4S_12130 Magnetic Particles Aggregation in the Presence of Guillaume Degre, Edouard Brunet,
a Hydrodynamic Shear Fridolin Okkels, Patrick Tabeling

MS4S_12536 Chaotic Mixing and Resonances in a Microfluidic Arash Dodge, Caroline Jullien,
System Fridolin Okkels, Patrick Tabeling

MS4L_12673 An Accurate Velocity Profile Measurement System Pierre Joseph, Patrick Tabeling
for Microfluidics : A Direct Measurement of the
Slip Length

MS4L_12966 Tunable Microfluidic Bubble Generator Piotr Garstecki, Howard A.
Stone, George M. Whitesides
