

Mini Symposium MS5

Microgravity flow phenomena

Chair: J.C. Legros (Belgium)

Co-Chair(s): P. Neitzel (USA), J.I.D. Alexander (USA)

Introductory Lectures

Paper ID	Title	Authors
MS5I_10598	Foams, Films and Surfaces in Microgravity	Denis Weaire, S. Cox
MS5I_10714	Collisional Granular Flows with and without Gas Interactions in Microgravity	Haitao Xu, Michel Y. Louge
MS5I_11133	Microgravity and Microscale Fluid Mechanics	George M. Homsy

Contributed Papers

Paper ID	Title	Authors
MS5S_10958	Hydrodynamic Effect of Slow Phase Transitions in Microgravity	Eleonora K. Bevza, O.O. Kochubey, D.V. Yevdokymov
MS5S_10980	Heat Transfer Due to High Frequency Vibration: a New Approach for Achieving Thermally Optimum Geometry Under Microgravity Conditions	M. C. Charrier Mojtabi, Y. P. Razi, K. Maliwan, A. Mojtabi
MS5S_11483	Thermocapillary Convection in Liquid Bridges and Annuli	Bok-Cheol Sim, Abdelfattah Zebib
MS5L_11757	Mathematical Models of Microconvection for Isothermally Incompressible and Weakly Compressible Liquids	Vladislav V. Pukhnachov, Olga N. Goncharova
MS5L_11843	Onset of Oscillations in High-Prandtl Thermocapillary Liquid Bridges: Linear-stability Analysis vs. Experiment	Ermakov M.K.
MS5L_12402	Spherical Two-phase Interface in a Near-critical Fluid. Gradient Approach	Anatoly M. Vorobev, D.V. Lyubimov, T.P. Lyubimova
MS5L_12427	Transition to Chaotic Marangoni Convection in Liquid Bridge	Shevtsova V., Melnikov D., Legros J. C.
MS5L_12447	Capillary Pressure of a Liquid Between Uniform Spheres Arranged in a Square-packed Layer	J. Iwan D. Alexander, Lev A. Slobozhanin, Stephen H. Collicott

MS5L_12651 Recent Advances in Permanent Noncoalescence and Nonwetting

G. Paul Neitzel, Pasquale Dell'Aversana, Peter Nagy, Maria-Isabel Carnasciali

MS5S_12765 The Stability of Connected Pendant Drops

Lev A. Slobozhanin, J. Iwan D. Alexander
