



Post-doctoral position in theoretical microfluidics

A postdoctoral fellow position is now open in the Department of Chemical Engineering of Technion–IIT, Haifa, Israel. The prospective postdoc will be involved in theoretical modeling of unit operations in droplet-based microfluidics, such as, generation/ breakup of confined “slug” droplets in shallow microfluidic channels, step-emulsification, flow-induced assembly of droplets and other related problems. The research is funded by the European Commission Horizon 2020 program via FET Open grant. The theoretical study will be closely coordinated with microfluidic experiments (P. Tabeling, ESPCI) and numerical modeling (L. Brandt, KTH).

Requirements: (1) PhD degree in engineering (chemical, mechanical, aeronautical), physics, applied mathematics or closely related fields; (2) strong background in fluid mechanics excellent analytical skills (previous experience with modeling of droplet-based microfluidics, interfacial flows or free-boundary problems is a plus); (3) ability to work independently; (4) very good English (speaking, writing, reading) skills.

The term of appointment is for 2 years. The salary and benefits are commensurate with qualifications and experience, and are internationally competitive. To apply, please send a detailed CV including list of publications and contact information of two referees to Prof. Alex Leshansky (lisha@technion.ac.il). The expected starting date is Sep 1st 2015.

More information about the research in the group:
http://ceweb.technion.ac.il/Alexander_Leshansky.htm

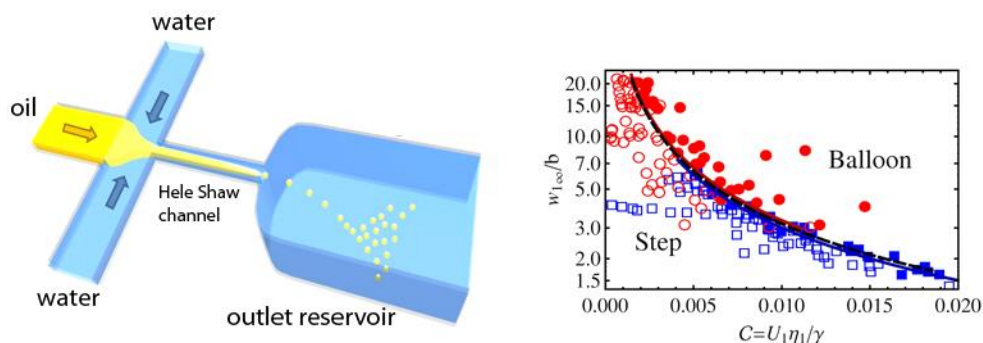


Figure 1: Schematics of the step-emulsification device (left panel) and the corresponding phase diagram (right panel); (Li et al. Lab Chip 2015)