Abstract Submitted
for the DFD19 Meeting of
The American Physical Society

Chaos and disorder in microfluidics[1] PATRICK TABELING, ESPCI — Dynamics obviously plays an important role in microfluidics: how long does it take for a biochemical reaction to develop, how long does it take for a microdroplet to form... More specifically, chaotic dynamics plays an important role in the domain of micromixing. Devices based on chaotic mixing, designed to accelerate mixing, are now currently used in the laboratories. To celebrate the memory of Jerry, I will show a few examples where chaos and disorder, in the way he liked to think about, are exploited to develop certain functionalities in microfluidic devices.

[1]ESPCI, IPGG, CNRS, Horizon2020

Patrick Tabeling
ESPCI

Date submitted: 30 Jul 2019 Electronic form version 1.4