



WORKSHOP ON CAPILLARY MICROMANIPULATION

Which applications for fluid interfaces?

The first edition of this workshop will convene experts in the field of capillarity, with special focus on the applications of fluid interfaces (self-assembly, manipulation, manufacturing, and others). The workshop will feature four plenary talks by recognised scientist in the field, as well as short presentations followed by a voluntary discussion to enhance the networking opportunities between young researchers.

Plenary talks:

- **Peer Fischer**, Max Planck Institute: *Interfacial flows in chemically active systems.*
- **Benoit Scheid**, ULB: *Interfacial dynamics in liquid films and ligament stretching.*
- **Massimo Mastrangeli**, TU Delft: *The fluid joint: a versatile assembly tool.*
- **Karl F. Böhringer**, University of Washington: *Moving drops on micro-structured surfaces.*

Virtual workshop

9 March 2021

4PM to 7PM (CET)

Registration:

events.femto-st.fr/wcm/en

(free of charge)

ORGANISERS



WCM PROGRAM

16:00 - 16:10	Welcome
Plenary talks	
16:10 - 16:35	Interfacial flows in chemically active systems. Peer Fischer , Max Planck Institute.
16:35 - 17:00	Interfacial dynamics in liquid films and ligament stretching. Benoit Scheid , ULB.
17:00 - 17:10	Pause
Short presentations	
17:10 - 17:40	Capillary handling in high dynamics micro-assembly lines. Adam Chafaï , ULB.
	Precise microdosing by magnetic shape memory pump for capillary micromanipulation. Kari Ullakko , LUT University.
	Capillary transportation and self-alignment of microfibers. Bo Chang , Shaanxi University of Science and Technology.
	RAM: Robot-assisted acoustofluidic manipulation. Jan Durrer , ETH Zurich.
	Capillary self-assembly of droplets in microfluidics. Jan Guzowski , IPC, Polish Academy of Sciences.
	Anomalous flow behaviour of viscous fluid droplets. Maja Vuckovac , Aalto University.
	Microfluidic manipulation through acoustically controlled embedded microbubbles. Nino F. Läubli , ETH Zurich.
	Magnetically powered metachronal waves induce locomotion in self-assemblies. Ylona Collard , Liege University.
17:40 - 18:00	Thermocapillary manipulation at the air-water interface. Franco Piñan Basualdo , ULB/FEMTO-ST.
	Passive valve microfluidic chip on capillary tip toward nanolitre drug delivery and sampling. Antoine Barbot , FEMTO-ST/CNRS.
17:40 - 18:00	Breakout rooms discussions: Each of the short presentations' speakers will hold a room to further present/discuss his work with interested participants. Attendants can join one or several of these rooms to participate in the discussions or profit from this time to take a break.
Plenary talks	
18:00 - 18:25	The fluid joint: a versatile assembly tool. Massimo Mastrangeli , TU Delft.
18:25 - 18:50	Moving drops on micro-structured surfaces. Karl F. Böhringer , University of Washington.
18:50 - 19:00	Closing remarks

*All times are in CET