JMC 2026
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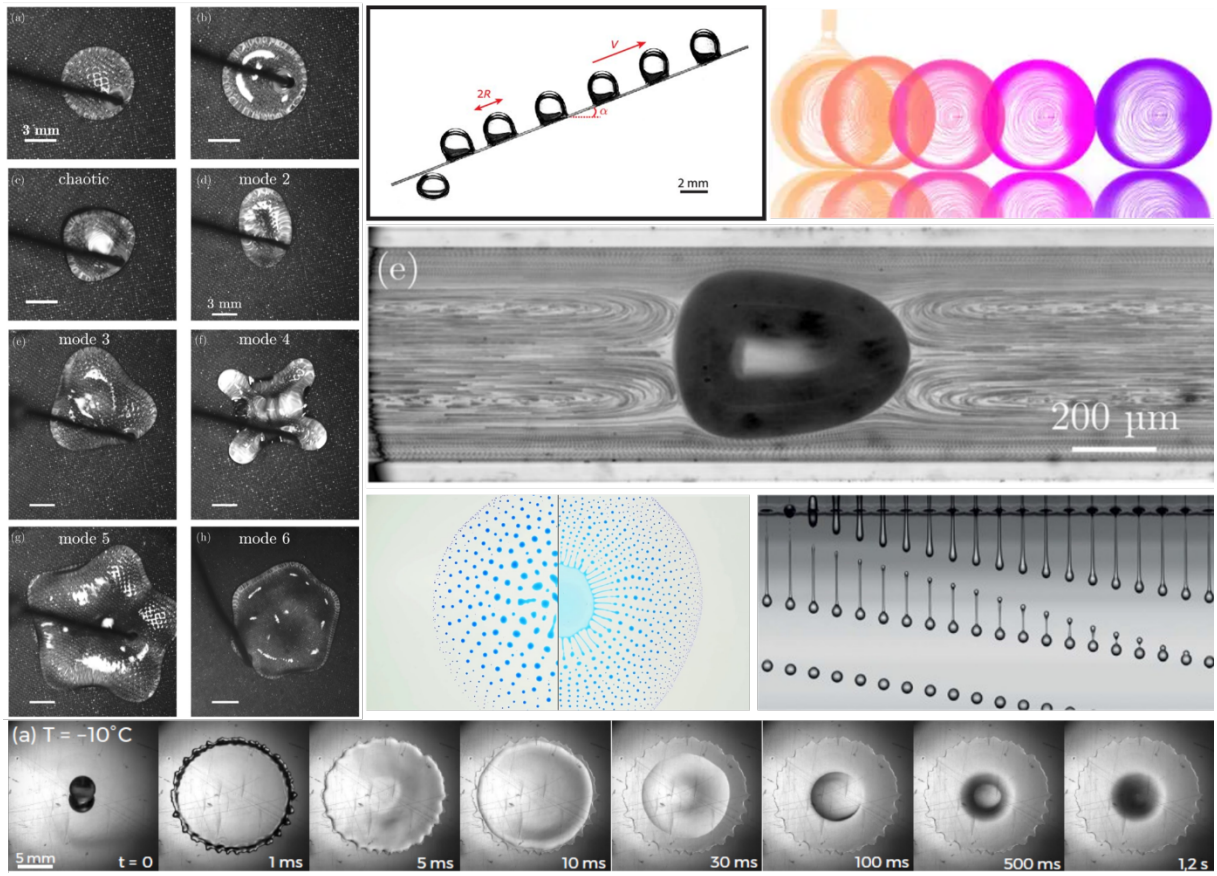
Université de Toulouse
SFP Société Française de Physique

https://jmc2026.sciencesconf.org/

MMM05: Drops and bubbles dynamics, capillarity, wetting and non-wetting phenomena.

Organizers: Charlotte de Blois (FAST, Orsay), Alexis Duchesne (IEMN, Lille), Anaïs Gauthier (IPR, Rennes), Benjamin Sobac (LFCR, Anglet)

Invited Speakers: **Marie-Caroline Jullien (IPR, Rennes)**
Lorène Champougny (LGC, Toulouse)
Philippe Bourrianne (PMMH, Paris)



Capillarity and wetting — or conversely non-wetting — play a crucial role in the dynamics of drops and bubbles. They govern a wide range of phenomena, including drop impact and rebound, spreading and retraction, coalescence and fragmentation, pinch-off singularities, air entrainment, bubble nucleation and migration, as well as contact line motion and hysteresis. Structured, textured, chemically patterned, or heated/ cooled surfaces further enrich these behaviors, leading to striking and sometimes counterintuitive dynamics. The scope of this mini-symposium also covers the dynamics of confined multiphase flows, droplets of complex fluids, and droplets undergoing phase change.

Beyond the fundamental understanding of model systems, these phenomena play a key role in numerous applications, including microfluidics, printing and coating technologies, heat transfer and thermal management, additive manufacturing, multiphase industrial processes, energy systems, and bio-inspired or smart surfaces.

This mini-colloquium aims to bring together researchers in physics, mechanics, and related disciplines interested in the dynamics of drops and bubbles, capillary phenomena, and wetting and non-wetting mechanisms, from experimental, theoretical, and numerical perspectives.

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