

Fluid Dynamics Seminar

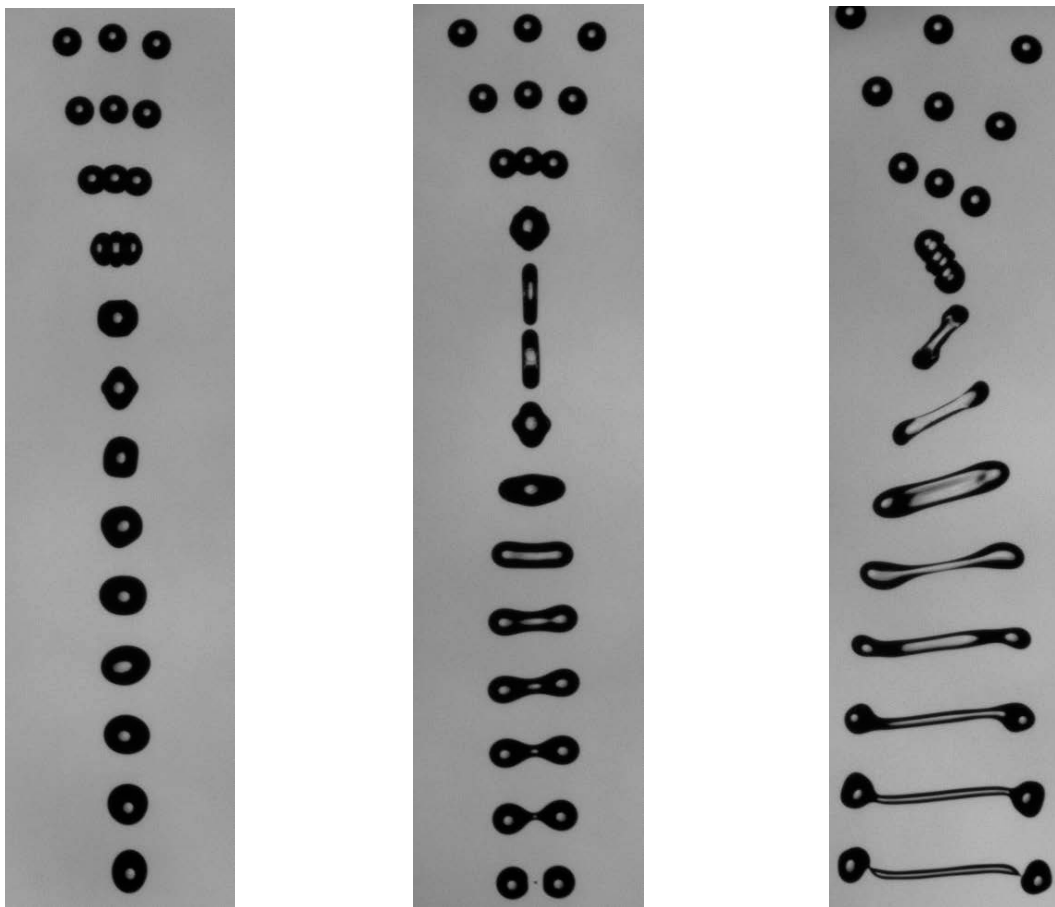
Date: Friday, October 07th 2016 at 14:00

Location: ZARM, Room 1730

Ternary drop collisions for encapsulation

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Drops are portions of liquid with free surfaces in contact with an ambient fluid medium. Spray or aerosol drops have the potential to collide with others on their trajectories through the ambient gas. As a consequence from the collisions, the drops may either merge, forming a stable new state, or break up and form drops smaller than the original ones. Colliding drops may be used as micro-reactors in chemical engineering. In this application, the mechanics of collisions of more than two drops may be of interest. In the present talk we discuss the collision of two and three drops, comparing the stability behaviour of the two collision types and drawing conclusions relevant for the application in reaction technology.

http://www.ots.at/presseaussendung/OTS_20021008_OTS0050/guenter-brenn-stroemungslehre-technische-universitaet-graz