

Particles at Liquid Interfaces and Particle-stabilised Aqueous Foams

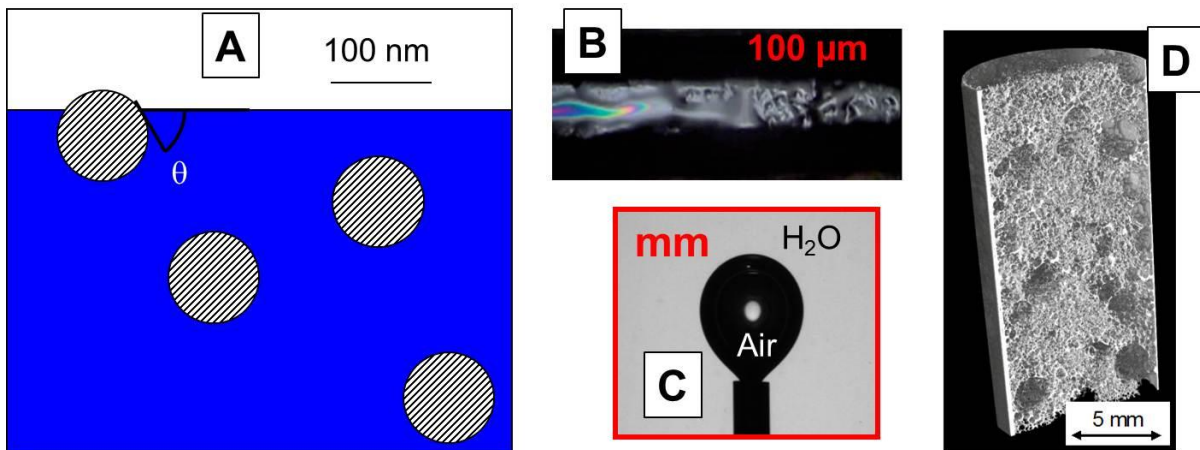
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What happens at the interface of particle dispersions? Do particles lie at the wetting angle and fully pack at the water surface? (A) In the first part of this talk, I will introduce some issues on the attachment of (nano)particles at the water interface. Interfacial energy landscapes will be discussed after presenting in-situ contact angle measurements of 100 nm particles at the air-water.

Interfaces populated by silica (nano)particles and particle-stabilised foams will be described in second part of the talk. Here, indirect and in-situ experiments on planar interfaces (A), free standing films (B), bubbles (C) and foams (D) will help understanding the stabilization mechanisms in particle-stabilised aqueous foams.



References:

Stocco A*, Chanana M, Su G, Cernoch P, Binks BP, Wang D. *Angewandte Chemie International Edition* AUG 2012, DOI: 10.1002/anie.201203493.

Stocco A*; Garcia-Moreno F; Manke I; Banhart J; Langevin D. *Soft Matter* 2011, 7, 631-637.

Stocco A; Crassous J; Salonen A; Saint-Jalmes A; Langevin D. *Physical Chemistry Chemical Physics* 2011, 13, 3064-3072.

Zang DY; Stocco A*; Bingbo W; Langevin D; Binks BP. *Physical Chemistry Chemical Physics* 2009, 11, 9522-9529.