

Small Particles at Liquid Interfaces

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Colloidal particles adsorb very strongly to fluid (air-water or oil-water) interfaces and can act as efficient stabilisers of foams and emulsions even in the absence of surface-active molecules.¹ The wettability of the particles at the interface is crucial in optimising their use in such dispersed systems. We have been investigating particles of different type, *e.g.* silica,² clay, polymeric,³ microgels⁴ and of different size, from nm to μm , at a variety of liquid interfaces. The talk will discuss a selection of our findings in three specific areas:

- (i) Planar monolayers at air- or oil-water interfaces,
- (ii) Particle-stabilised simple and multiple emulsions,⁵
- (iii) Particle-stabilised aqueous foams.⁶

References

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