

## Mesoscale structures investigated with USANS - use for studies of food and environment

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Modern materials are often effective because of their structure and many important processes and substances have significant length scales that range from nanometres to tens of micrometres. Examples are flocculation of particles during water purification, food such as emulsions and bakery products, and freeze-dried materials. The range of components and heterogeneity make the contrast variation available with neutron techniques very valuable in these studies. In particular, studies in these areas using ultra small-angle neutron scattering (USANS) complement SANS, VSANS and imaging as well as other probes with X-rays and light microscopy. Illustrative examples will be shown for societal relevant studies related to water purification, freeze drying and food.

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