Contribution ID: **70** Type: **Invited speaker**

Self-assembly in di-alkyl chain surfactants and the role of co-surfactants and additives: impact upon product formulation and functionality.

Wednesday, 18 May 2022 14:00 (30 minutes)

Home and personal care products, such as fabric and hair conditioners and shampoos, are often mixtures of di-alkyl chain ionic / nonionic surfactant mixtures. Such formulations exhibit a complex array of microstructures which affect their functionality, formulation, stability, reproducibility, and adsorption properties. It will be shown how small angle neutron scattering, SANS, has made important contributions to the evaluation of these complex microstructures, and how co-surfactants, alcohols and model perfume molecules affect the microstructure. The results will illustrate in some specific model examples the potential impact upon product formulation, stability and reproducibility.

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Session Classification: Talks