

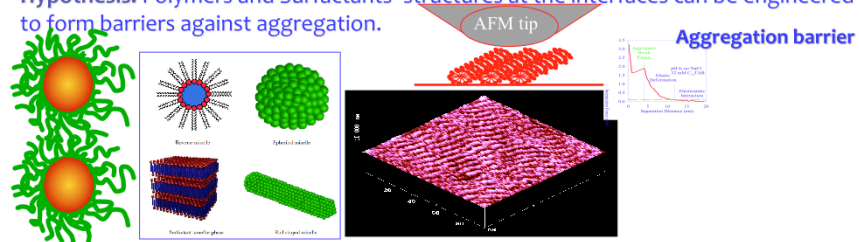
Dispersion of High Solid Content Slurries

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Overview: Stabilization (dispersion) of particles is widely exploited, eg. paint, ink, and drug formulations, food, ceramics, composites, etc. Considerable research has been done at PERC and other laboratories. However, dispersion behavior of high solid content slurries is not completely understood.

Therefore further research is needed to develop the knowledge base and predictive methodologies to control the dispersion behavior of multi-phase and polydisperse high solid content particulate systems. Applications of these methodologies to systems of interest to current members should be investigated.

Hypothesis: Polymers and Surfactants' structures at the interfaces can be engineered to form barriers against aggregation.



Steric Stabilization

**Surfactant structures
and adsorption**

**Industrial Relevance:
Most of the Partners**