Soft Colloids by Constrained Volume Self-Assembly **Rodney D. Priestley**

Two distinct regions within one nanoparticle **Commercial interest as stabilizers dramatically outpace** production ability

Self-assembly **INCREASING SIZE** Janus stabilizers are up to Molecular Polymer Janus Stabilizers Stabilizers Stabilizers **10,000x** better stabilizers 0.5 nm 10 nm 50 - 400 nm Stream 2 Stream 1 **Systematic** PS and PI H₂O control of **Emulsion** surface Mixing lixing anisotropy, lime particle size, and surface chemistry **Room temperature and** Amphiphilic, continuous production of Janus charged, **Rapid Mixing** particles biodegradable Sphera Materials

Princeton University

Oil

Water