

Emulsion Polymers Consulting and Education, LLC

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<u>Core-Shell and Other Structured Latex Particles –</u> <u>Production and Characterization</u>

Topical Outline of Tutorial

September 2023

- 1.) Examples of complex, composite particles, including hybrid latexes
- 2.) Basic science controlling structures thermodynamic equilibrium based on interfacial free energies
- 3.) Kinetically controlled structures phase separation and polymer chain diffusion during and after polymerization
- 4.) Sequence of molecular events necessary to achieve final morphology morphology matrix
- 5.) Analytical characterization of particle structures chemical, thermal and microscopic techniques
- 6.) Commercial applications of morphologically complex latex particles