



## **Emulsion Polymers Consulting and Education, LLC**

**An international consulting group with offices in the USA (New Hampshire) and Canada (Ontario)**

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*the wisdom of experience, the power of knowledge*

### **EPCEd tutorials on topics in emulsion polymerization and water borne coatings**

#### **Zeta Potential – Outline of Discussion**

- Why are charged particles colloidally stable?
- Attraction/Repulsion (DLVO concepts)
- Critical coagulation concentration
- Steric stabilization – role of nonionic surfactants
- Electrophoresis
- Zeta Potential ranges for colloidal stability
- pH and ionic strength factors affecting measurements
- Commercial instruments to measure the Zeta Potential
- Best practices
- Open discussion