



## **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**

#### **Vinyl Acid Comonomers – Outline of Discussion**

- Vinyl acid monomer physical/chemical properties
- Distributions of acid monomers between water and particles
- pKa's for acid monomers and copolymers
- Water phase reaction kinetics
- Effect on Z-mer lengths – pH effects
- Radical penetration into latex particles
- Effect of acid copolymer on particle morphology
- Analytical determination of acid copolymer location in latex
- Open discussion