



Faculty Member

Timken Foundation Center for Precision Manufacturing

Contact Information



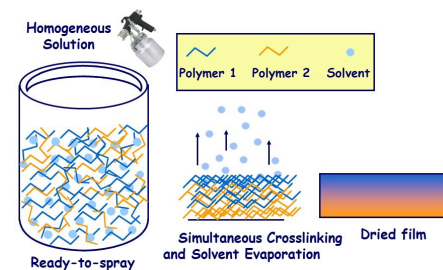
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Research Interests

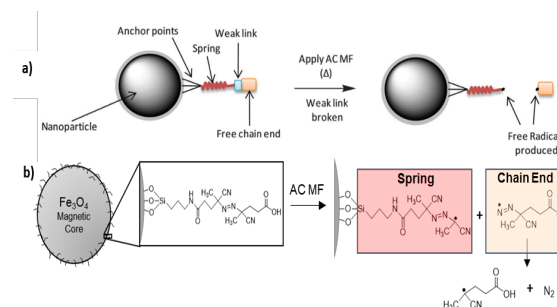
- Coatings Processes
- Corrosion Resistant materials
- 3-D printing
- Sustainability
- Recycling
- Magnetic Nanoparticles

Sample Research I: Self-Stratifying Coating Process

- Process where a homogenous Mixture is applied, and Phase Separation occurs during the Film Formation Process
- Can Result in Functional material Located at both the Film Substrate and Film-Air interface
- Wear-Resistance, Anti-Bacterial, Corrosion Resistance, Ect.



Sample Research II: Magnetic Nanoparticles: Cure-on-Command Technologies



MI oscillator system (a) and example chemistry (b).