

From Commodity to Value-Added Surfactants: Structure, Phase Behavior, and Applications

Tuesday, May 28

1:15-4:30 PM | Keller Hall, Room 3-230

Nanostructural Materials and Processes (NMP)
Mahesh Mahanthappa and Joe Zasadzinski Coordinators

This workshop will cover a variety of topics ranging from fundamental issues in surfactancy and amphiphile self-assembly to commodity and value-added applications of designer surfactants as biocides, emulsion and therapeutic stabilizers, and as therapeutic delivery vehicles. Contributions from a combination of industrial and academic speakers will address different aspects of these unique and useful materials, while highlighting the underlying amphiphile molecular design principles required by specific applications.

AGENDA

<u>Time</u>	<u>Title</u>	<u>Authors</u>
1:15	Thoughts on New Surfactant Design for the Cleaning Industry	Mark Levitt -Ecolab
1:50	Aqueous Lyotropic Phase Behavior of Small Molecule Surfactants	Mahesh Mahanthappa -UMN
2:25	Engineering Fluid-Fluid Interfaces with Oil-Soluble Surfactants	Lynn Walker -Carnegie-Mellon
3:00	Break	
3:20	Novel Surfactant Excipients for Liquid Stabilization of Protein Pharmaceuticals	Joshua S. Katz -DuPont
3:55:	Non-ionic Surfactants in Detergent Applications: Market Trends and Dow Innovations	Eric Wasserman -Dow