Polymer Nanostructures on Solid Surfaces

Brian P. Grady, Alberto Striolo, Dave Schmidtke: OU
Dale Teeters: Tulsa
A Few Facts About the Grant

• 2 years: 4 students

• Students supported
  – Maricel Marquez: PhD OU; Chevron-Texaco, Houston
  – Nguyen Truong: MS TU; Noria Corp. Tulsa
  – Krupa Patel: MS OU; Research Assistant OUHSC
  – Rajesh Tummala: PhD Student (Expected Graduation Date Fall 09)
• Papers
  – One more with Krupa Patel as lead author involving protein adsorption on structured surfaces.

• Grants
  – 2 unsuccessful NIRT applications
  – A.Striolo, B. Grady, 2 unsuccessful NSF applications to Interfacial Processes and Thermodynamics
  – A.Striolo, B. Grady, D. Teeters: 2 unsuccessful NSF applications to Interfacial Processes and Thermodynamics
Scientific Nuggets

- Nanostructures made using unique process involving adsorbed surfactants
- Counterion condensation determines surfactant aggregate shape
Future/Continuing Work

- A. Striolo and B. Grady are continuing work in related area with 1 published paper and 1 paper being submitted.
- Dale Teeters has purchased an electron beam lithography apparatus useful for this work.