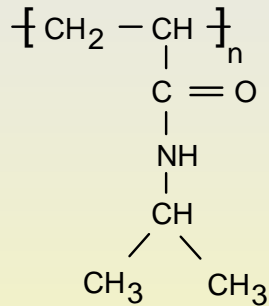


Stimuli Responsive Surfaces

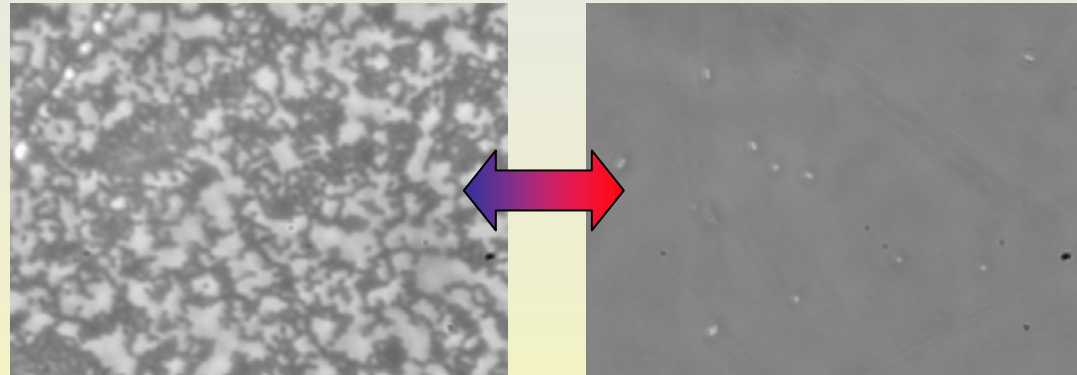
H Canavan, G Lopez, J Curro, A Chilkoti, A Wandering Ness (ONR, SNL, 3M, NSF)

Poly(N-isopropylacrylamide)
(PNIPAAm)



- LCST in water at “32°C”

Biofilm of *Staphylococcus epidermidis* is released upon interfacial phase transition



- Understanding Smart Polymer Brushes
 - SPR
 - Neutron Reflectivity
 - Self-Consistent Field Theory
- Control of Adsorption
 - Control of Cell Adhesion
 - Protein and Gas Adsorption
- Controlled Molecular Transport
 - Switchable Porous Membranes
 - Switchable Delivery from Beads

