## Gordon Research Conference: Colloidal, Macromolecular, and Polyelectrolyte Solutions

Harbortown Resort, Ventura, California — February 6-10, 2000 Chair: Eric J. Amis, NIST — Vice Chair: Alice P. Gast, Stanford

Sunday 6 February 2000 Colloids	
7:30 PM	Chip Zukoski, University of Illinois — Nanoparticle phase behavior: Characterization with and without depletion interactions
8:30 PM	Seth Fraden, Brandeis University — The role of entropy in the phase behavior of mixtures of rods and spheres
Monday 7 February 2000 Colloids	
9:00 AM	Sharon Glotzer, NIST — Emergence of nanoscale dynamical structure in glass-forming liquids and polymers
10:00 AM	David Weitz, Harvard University — Relaxations in colloidal glasses and gels
11:20 AM	Erik Hobbie, NIST — Internal dynamics of entropic colloidal gels
4:30 PM	Poster Session I
Polyelectrolytes	
7:30 PM	Manfred Schmidt, University of Mainz — New polyelectrolyte architectures: Synthesis and properties
8:30 PM	Giovanni Nisato, Philips Electronics — Polyelectrolyte dendrimers: Structure and interactions
Tuesday 8 Fe	bruary 2000 Polyelectrolytes
9:00 AM	Michael Rubinstein, University of North Carolina — Solutions of hydrophobic polyelectrolytes
10:00 AM	Arun Yethiraj, University of Wisconsin — Liquid state theory for polyelectrolyte solutions
11:20 AM	Francisco Solis, Northwestern University — Strong coupling approach to polyelectrolyte theory
Micelles	
7:30 PM	Jan Skov Pedersen, Risoe National Laboratory — Scattering from neutral and charged wormlike micelles: Experiments and Monte Carlo simulations
8:30 PM	Francoise Winnik, McMaster University — Responsive hydrophobically-modified polymers: pH/temperature controlled micellation in water and adsorption on liposome surface
Wednesday 9 February 2000Gels and Complex Fluids	
9:00 AM	Alice Gast, Stanford University — Micromechanics of magnetorheological fluids
10:00 AM	Mitsuhiro Shibayama, Kyoto Institute of Technology — Characterization of gelation by dynamic light scattering
11:20 AM	Ludwik Leibler, CNRS/Elf-Atochem — From short polyelectrolyte rods to polyelectrolyte microgels : A search for simple colloids
4:30 PM	Poster Session II
<b>Biopolymers and Membranes</b>	
7:30 PM	Fred MacKintosh, University of Michigan — Biopolymers, membranes, and twisted ribbons: self assembled microstructures and their characterization
8:30 PM	Andy Marcus, University of Oregon — Structure and dynamics of complex fluids using new approaches to fluorescence imaging and spectroscopy
Thursday 10 February 2000 Surfaces	
9:00 AM	Claudine Williams, College de France — Adsorption of polyelectrolytes on neutral surfaces
10:00 AM	Robert Tilton, Carnegie Mellon University — Sculpting adsorbed polymer layers via polymer-surfactant complexation
11:20 AM	Steve Granick, University of Illinois — A watered-down view of polymer surface diffusion
BioMEMS	
7:30 PM	David Duffy, Gamera Bioscience — Microfabricated polymeric systems for bioanalytical and biomedical applications
8:30 PM	Andrea Chow, Caliper Technologies — <i>Exploiting colloidal forces and polyelectrolyte solutions in bioMEMS</i>

Participants wishing to present posters should send title, author and affiliation lists to Alice Gast, at alice@chemeng.stanford.edu