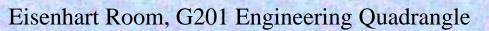
MASSACHUSETTS INSTITUTE OF TECHNOLOGY Princeton University



13th Cohen-Register Microsymposium

June 7-8, 2005 **%** Princeton University





Tuesday, June 7	
Noon	Arrival and Lunch in the Eisenhart Room (Engineering Quadrangle, Room G201)
1:00 pm	Ryan Bennett (Cohen) Strategies for Modifying Micellar-Templated Metal Nanocluster Arrays for Applications in Carbon Nanotube Synthesis
1:25	Mingshaw Wu (Chaikin/Register) Shear Alignment of Sphere-Forming Diblock Copolymer Thin Films
1:50	Zhizhong Wu (Cohen/Rubner) Layer-by-Layer Assembled Silica Nanoparticles on Flexible Substrates: Toward Antireflection Coatings on Deformable Lenses
2:15	Jeff Quinn (Register) Synthesis of Poly(N-vinylcarbazole)-block-Polystyrene by Living Free Radical Polymerization
2:40	** B · R · E · A · K **
2:55	Andy Miller (Cohen/Hammond/Irvine) Nanostructured Amphiphilic Block Copolymer Micelle Thin Films for Control of Antigen-Presenting Cell Function
3:20	Vincent Pelletier (Chaikin/Register) Shear Alignment of Cylinder-Forming Diblocks by Fluid Flow and Application to Polarizers
3:45	Zhi Li (Cohen/Rubner) Efforts Towards Polyelectrolyte-Multilayer-Based Antibacterial, Antireflection Coatings with Superhydrophobicity and Biocompatibility
4:10	Hongwei Zhang (Register) Poly(ethylene glycol)-based Hydrogels Formed in Situ by Michael Reaction
4:35	** B · R · E · A · K **
4:50	Roger Aronow (Cohen/Rubner) Rigid Nanoparticle Toughening of Amorphous Polymer Blends
5:15	Rick Register (work of Chiajen Lai and Lynn Loo) Thermoreversible Transitions to and from the Hexagonally-Perforated Lamellar Structure in Diblock Copolymers
5:40	Xiaoxia Sheng (Cohen/Rubner) Self-Decontaminating Coatings from Polyelectrolyte Multilayers
6:30	DINNER at Kalluri Corner (corner of Nassau and Olden Streets)
Wednesday, June 8	
8:30 am	Continental Breakfast in the Eisenhart Room (Engineering Quadrangle, Room G201)
8:50	Daeyeon Lee (Cohen/Rubner) Hydrogen-Bonded Multilayer Coatings on Microparticles and Applications
9:15	Weining Man (Chaikin/Register) Order-Disorder Transition in Thin Films of Cylinder-Forming Diblock Copolymers
9:40	Adam Nolte (Cohen/Rubner) Determining the Young's Modulus of Polyelectrolyte Multilayer Films via Stress-Induced Buckling Instabilities
10:05	** B · R · E · A · K **
10:20	Katsuyuki Wakabayashi (Register) Effects of Crystallinity and Neutralization on the Mechanical Properties of the Amorphous Phase in Semicrystalline Ionomers
10:45	Ben Wang (Cohen/McKinley) Fabrication of Nanostructured Polymeric Composites Using Forced Assembly
11:10	Sasha Myers (Register) Synthesis of ROMP/Anionic Block Copolymers
11:35	Sharon Soong (Cohen/Boyce)

Mechanics of Rate-Dependent Deformations of POSS-Filled Polymers