

Symposium 3A

Title: **General Papers in Colloids and Surface Science A**

Chair: D. A. Shipp

Chair Assistant: Nuha Salem

Location: 160 Science Center

Monday June 13, 2005

Presiding: D. A. Shipp, A. Mueller, N. Heldt

Paper	Time	Title and Authors
3A-1***	11:00 - 11:40 AM	Brownian Motion in the Presence of Temperature Gradients: An Extension of Einstein's Theory on the 100 th Anniversary of it's Formulation H. BRENNER
3A-2	11:40 - 12:00 AM	Molecular Dynamics Simulations of Nanodrop Motion on Uniform and Non-Uniform Surfaces SP. S. SARAVANAN, J. B. McLaughlin, R. S. Subramanian
3A-3	12:00 - 12:20 PM	Effects of Extreme Confinement and Field History on the Self- Assembly of Magnetorheological Fluid Colloids R. HAGHGOOIE, P. Doyle
3A-4***	1:30 - 2:10 PM	Self-Organization of Amphiphilic Copolymers in Aqueous Media F. M. WINNIK, P. J. A. Bombardier
3A-5	2:10 - 2:30 PM	Structure of Microparticles and Nanoparticles in Solid- Stabilized Emulsions S. Tarimala, C. Wu, R. Sharma, L. L. DAI
3A-6	2:30 - 2:50 PM	Creating Polymeric Nanostructured Networks Through Nucleation and Growth Strategy
3A-7	3:20 - 3:40 PM	Preparation and Small Angle Neutrons Scattering Characterization of Polysiloxane-silica Nanocomposites M. MEYER, C. Parneix, B. Cabane, R. Schweins
3A-8	3:40 - 4:00 PM	Continuous Polyelectrolyte Nanofilm Growth Under an Applied Electric Potential

A. P. NGANKAM, P. R. Van Tassel

- 3A-9 4:00 - 4:20 PM Structure and Dynamics of Fluorinated Fatty Acid SAMs by
Solid-State NMR
A. O'DONNELL, L. Reven
- 3A-10 4:20 - 4:40 PM Dynamic NMR Investigation of Lipid-Hydrotrope Interaction in
a Homogeneous System
N. HELDT, F. Odeh, Y. Li
- 3A-11 4:40 - 5:00 NanoLab: A Hands-On Introduction to Nanoscience for
Scientists and Engineers
M. B. Johnson, L. A. BUMM

Tuesday June 14, 2005

Presiding: D. A. Shipp, J. B. McLaughlin

- 3A-12** 10:30 - 11:10 AM Porous Photopolymer Photonic Bandgap Structures:
Fabrication and Applications
A. N. CARTWRIGHT
- 3A-13** 11:10 - 11:30 AM Design and Study of Structured Polymer Microspheres
G. Gao, M. Srivastava, N. Burke, R. Takekoh, A. P.
Hitchcock, H. D. H. STOVER
- 3A-14* 11:50 - 12:10 AM Aggregation in Thermosensitive Copolymers and Related
Applications
X. X. ZHU, M. Nichifor, H. Y. Liu, D. Avocce
- 3A-15* 12:10 - 12:30 PM One-Pot Synthesis of Block Copolymer Coated Cobalt
Nanocrystals
G. LIU, X. Yan, Z. Lu, S. A. Curda, J. Lal
- 3A-16** 1:30 - 2:10 PM Passivating Quantum Dots Using Polymers
T. E. Dykstra, J. K. Oh, X.-S. Wang, M. A. Winnik, G.D.
SCHOLES
- 3A-17 2:10 - 2:30 PM New Approach to Reflective Type Electrochromic Display and

		the Effect of Particle Size on the Color Efficiency and Switching Time J. -H. RYU, K.-D. Suh
3A-18*	2:30 - 2:50 PM	Molecular Stars with a Three-fold or a Six-fold Totation Symmetry: Self-Assembly and Luminescence S. WANG, W.-L. Jia, C. Seward, Q. Liu
3A-19	3:20 - 3:40 PM	Routes of Molecular Energy Transfer Over Self-Assembled Surfactant Interfaces T.D. Sechler, J. C. DEAK
3A-20	3:40 - 4:00 PM	Microwave Synthesis and Applications of Semiconductor, Metallic and Magnetic Nanoparticles F. BENSEBAA, A. Firth, N. Patrito, C. Bock, Y. LePage, P. L'Ecuyer, D. Wang, F. Zavaliche, T. Veres
3A-21	4:00 - 4:20 PM	Direct Laser Micro-Patterning of Self-Assembled Monolayers M. R. Shadnam, A. AMIRFAZLI
3A-22	4:20 - 4:40 PM	Preparation of Gold Nanorods: Synthesis, Shape Separation and Optical Properties K. PARK, V. Sharma, M. A. El-sayed, M. Srinivasarao
3A-23	4:40 - 5:00 PM	Lattice Boltzmann Simulations of Drop Migration on Surface with Wettability Gradient X. JIA, J. B. McLaughlin, G. Ahmadi

Wednesday June 15, 2005

Presiding: D.A. Shipp

3A-24*	10:00 - 10:40 AM	Surface Properties of Contact Lenses M. J. STACHOWSKI, G. Friends, D. Seelye, J. Kunzler, S. Rastogi
3A-25	10:40 - 11:00 AM	Verification of the Langmuir Isotherm for the Adsorption of Proteins to Polymer Surfaces J.-Y. Yoon, M. Klappert, L. J. LUCAS

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| 3A-26 | 11:00 - 11:20 AM | Fibronectin / Polyelectrolyte Multilayer Assemblies: Film Formation and Cell Attachment Studies
C. R. WITTMER, P. R. Van Tassel |
| 3A-27 | 11:20 - 11:40 AM | Surface Assembly of Protein in Correlation to Protein Crystallization
Y. W. Jia, X. Y. LIU |
| 3A-28 | 11:40 - 12:00 AM | Surface Treatment with Polymers for Biofouling Retardation
X. CHEN, R. Pelton |
| 3A-29 | 12:00 - 12:20 PM | Atomic Force Microscopy Studies of Langmuir-Blodgett Films: Storage Protein from Aleurone Cells of Barley and Lipid Associations
M. TOMOAIA-COTISEL, G. Tomoiaia, T. Yupsanis, A.-I. Balea, A. Mocanu |