

UNH Materials Science Workshop

October 19, 2005

Posters

“Quantification of the Release Rate of Proteins from Liposomes”,

Zhengmao Li¹, Yvon G. Durant²

¹Bentley Pharmaceuticals, Inc.; ²UNH Materials Science Program

“Preparation of Molecularly Surface Imprinted Polymeric Nanoparticles for the Direct Detection of Saxitoxin in Water by Quartz Crystal Microbalance”

Marine Barasc, Julien Ogier, Yvon Durant, Jerome Claverie
UNH Materials Science Program

“Mechanisms of Friction and Wear Reduction in Embedded Solid Lubricant Coatings and Their Application to Machining Processes”,

Dyumani Nunna¹, Canan Guleryuz², John Zimmerman¹,
James Krzanowski^{1,2}

¹Materials Science Program, UNH; ²UNH Dept. of Mechanical Engineering

“Microstructure Control of Ag Thin Films on Micro- and Nanostructured Surfaces for Carbon Nanotube Attachment”

Ann Marie Shover¹, Sivasubramanian Somu²,
Chandrani Pramanik³, Jun-Fu Liu⁴, Nicholas Dellas¹,
Glen Miller^{3,4}, James Harper^{1,3}

¹Department of Physics, UNH; ²Northeastern University; ³UNH Materials Science Program; ⁴Department of Chemistry, UNH

“Surface Plasmon Coupled Emission with Multilayer Thin Films”

Kathleen Hamilton¹, Tom Laue^{2,3}, Brett Austin²,
Zygmunt Gryczynski⁴, James Harper^{1,2}

¹Department of Physics, UNH; ²UNH Materials Science Program; ²Dept. of Biochemistry and Molecular Biology, UNH; ²University of Maryland Baltimore School of Medicine

“Microstructure Control in Aluminum Nitride Thin Films”

Derya Deniz¹, Nicholas Dellas¹, James Harper^{1,2}

¹Department of Physics, UNH; ²UNH Materials Science Program

“Novel Hydrogenations of [60]Fullerene Using Polyamines”

Jon Briggs¹, Margo Montgomery¹, Lindsey Silva¹, Glen Miller^{1,2}
¹Department of Chemistry, UNH; ²UNH Materials Science Program

“Synthesis of SMART Molecules for Patterned Assembly”

Jon Briggs¹, Andreas Athans¹, Glen Miller^{1,2}

¹Department of Chemistry, UNH; ²UNH Materials Science Program

“[60]Fullerenes for the Assembly of Nanotubes and Nanotemplates”

Jon Briggs¹, Glen Miller^{1,2}

¹Department of Chemistry, UNH; ²UNH Materials Science Program

“Preliminary Studies of Carbon Nanotube Chemistry”

Chandrani Pramanik¹, Glen Miller^{1,2}

¹UNH Materials Science Program; ²Department of Chemistry, UNH

“Determination of Compositional Inhomogeneities in Thin-Film Alloys with Nanometer Resolution”

J. Sun¹, J. B. Hannon², G. L. Kellogg³, K. Pohl¹

¹Department of Physics, UNH; ²IBM T.J. Watson Research Center;

³Sandia National Laboratories

“Preparation Techniques for Atomically Flat Au[111] Surfaces and Films”

G. Nanchev¹, K. Pohl^{1,2},

¹Physics Department and Materials Science Program, UNH

²UNH Materials Science Program

“Microencapsulation of Epoxy Resin Components for Self-healing Coatings”

Yasaman Deravi, Jeffrey Stubbs, Donald Sundberg

UNH Materials Science Program

“Non-spherical and Lobed Latex Particles - Understanding the Controlling Mechanism”

Diane Crosbie, Jeffrey Stubbs, Donald Sundberg

UNH Materials Science Program

“Structure Development in Composite Latex Particles: Effect of Radical and Polymer Chain Mobility”

Jeffrey Stubbs, Donald Sundberg

UNH Materials Science Program

“Design and Development of an Atmospheric Pressure Plasma for Deposition of Thin Film Coatings”

Carmela Amato-Wierda¹, Shunfu Hu¹, P.S. Raghavan²

¹UNH Materials Science Program; ²GT Equipment Technologies Inc.

“Molecularly Imprinted Nanoparticles”

Jerome Claverie, Sayantan Roy, Marine Barasc, Julien Ogier,
Yvon Durant

UNH Materials Science Program

“Nanoparticles of Zinc Phosphate – Preparation and Dispersion in Epoxy Coatings: Application to Corrosion Protection”

Pooja Marella, Jerome Claverie

UNH Materials Science Program

“Supramolecular Engineering of Vesicles via Self-Assembly: Application for Drug Delivery”

Floraine Colette¹, Jerome Claverie¹, Robert Gyurik²

¹UNH Materials Science Program; ²Bentley Pharmaceuticals, Inc.

“Controlled polymerization of acrylic acid by RAFT”

Kirill Skupov¹, Jerome Claverie¹, Catherine Lavadiere²,
Julien Loiseau², Nicolas Gaillard²

¹UNH Materials Science Program; ²Université Claude Bernard Lyon