

Meeting Schedule: AVS Prairie Chapter 2006 June 12, 2006

Time	101A	101B	101C	Atrium
7:30am				Expo setup
8:00am		Poster setup		Badge pickup/late registration open (8:00am-12:00pm)
8:40am	<p style="text-align: center;"><i>Surfaces and Nanointerfaces</i> Richard Rosenberg, Chair</p> <p>John Weaver*, University of Illinois Urbana Champaign Synthesis and Characterization of Metal and Semiconductor Nanoparticles on Surfaces</p>	Posters up 8:30-4:10	<p style="text-align: center;"><i>Microscopy and Nanostructures</i> Jerry Moore, Chair</p>	Expo open 8:30-3:30
9:20am	<p>Nathan L. Yoder Northwestern University Toward Stable Molecular Devices: Desorption of Cyclopentene from p-Si(100) with UHV-STM and Density Functional Theory</p>		<p>Amanda Petford-Long* Argonne National Laboratory Structure-property relationships in nanomagnetic materials</p>	Continental breakfast/coffee (through late morning)
9:40am	<p>Sara DiBenedetto, Northwestern University Organic Dielectric Materials for High Capacitance Applications: Modeling and Experiment</p>			
10:00am	-----	Poster presentations (odd-numbered posters to be judged)	-----	
10:40am	<p>Dave Sampson*, KLA-Tencor Video Rate Atomic Force Microscopy</p>		<p>Suzanne Raebel Stork Technimet Failure Analysis of Components Using Microscopic Techniques</p>	
11:00am			<p>Matthew T. Russell Northwestern University Master-less Fabrication of Poly(dimethylsiloxane) (PDMS) Stamps With Electron Beam Lithography</p>	
11:20am	<p>J.W. Elam, Argonne National Laboratory Atomic Layer Deposition of In₂O₃ Using Cyclopentadienyl Indium: A New Synthetic Route to Transparent Conducting Oxide Films</p>		<p>Eric Stach*, Purdue University Understanding the onset of plasticity in materials using quantitative in-situ nanoindentation</p>	
11:40am	<p>David J. Comstock, Northwestern University Fabrication of Integrated Scanning Electrochemical-Atomic Force Microscopy Probes by Atomic Layer Deposition of Aluminum Oxide</p>			
12:00pm	<p>AVS Prairie Chapter Business Meeting (open to all)</p> <p style="text-align: center;"><i>Nanoscience and Technology</i> Seth Darling, Chair</p>			Lunch served
1:00pm	<p>John Randall* Zyvex, Inc. Atomically Precise Manufacturing Another Step in Analog to Digital Conversion</p>		<p style="text-align: center;"><i>Atom Probe Tomography</i> John Noonan, Chair</p>	
1:40pm	<p>Joseph A. Letizia Northwestern University High Electron Mobility in Phenyl-Acyl-Thiophene Based Organic Field-Effect Transistors: From Vapor Deposition to Solution Processability</p>		<p>Dieter Isheim* Northwestern University Three-dimensional imaging and analysis of nano-scale structures in metals and alloys by atom-probe tomography</p>	
2:00pm	<p>Igor Bolotin University of Illinois Chicago XPS and QCM Studies of PMMA and Teflon AF1600 Films Bombarded by 1-20 keV C60+ Ions</p>			Afternoon beverages and snacks
2:20pm	-----	Poster presentations (even-numbered posters to be judged)	-----	
3:00pm	<p>David L. Frattarelli Northwestern University A Systematic Study of the Effects of Fluorination and Hydrogen Bonding Motif in a Series of Electro-Optically-Active Chromophores at both the Molecular and Thin-Film Level</p>		<p>Tom Kelly* Imago Scientific Instruments Three-Dimensional Atom Mapping with Atom Probe Tomography</p>	
3:20pm	<p>Daniel J. Askunsis University of Illinois Chicago Valence-Band and Core-Level X-Ray Photoelectron Spectroscopy of Lead Sulfide Nanocrystal/Polymer Composites</p>			
3:40pm	<p>Philippe Guyot-Sionnest* University of Chicago Semiconductor physics in solution: Colloidal quantum dots</p>		<p>Chantal Sudbrack Argonne National Laboratory Sub-nanometer compositional profile measurements with 3-D atom-probe tomography</p>	
4:20pm	closing/poster awardees announced			