

**WVNANO RESEARCH SYMPOSIUM**  
**TUESDAY, APRIL 20, 2010**  
**ERICKSON ALUMNI CENTER, WEST VIRGINIA UNIVERSITY**

7:50-8:20am      **Continental Breakfast**      **Alma Mater Room**

8:20-8:30am      **Welcome**  
 Curt Peterson, Vice President, WVU Research Corporation      **Grand Hall - A&B**

*Session I: Nanobiotechnology*  
*Room 110 & 111*

8:30- 8:55am      *Bionanofabrication: Making Better Nanostructures with Biology*  
 Carl Batt, Department of Food Department of Food Science, Cornell University

8:55-9:20am      *DNA Surfactants: Rapid Electrophoretic DNA Separations and Self-Assembly Dynamics*  
 James Schneider, Department of Chemical Engineering, Carnegie Mellon University

9:20-9:45am      *Probing Cellular Activities with Microfluidics and BioMEMS Technology*  
 Yuxin Liu, Lane Department of Computer Science and Electrical Engineering, West Virginia University

9:45-10:10am      *Nanoparticle-Induced Carcinogenesis*  
 Yon Rojanasakul, Department of Pharmaceutical Science, West Virginia University

10:10-10:30am      **Break**      **Alma Mater Room**

*Session II: Multifunctional Nanomaterials*  
*Room 110 & 111*

10:30-10:55am      *Epoxy Clay Hybrid (ECH) Nanocomposites: A Look at Platelet-Platelet Interactions*  
 Gale Holmes, National Institute of Standards and Technology

10:55-11:20am      *BioNanoComposites for Chemical and Biological Decontamination*  
 Cerasela Zoica-Dinu, Department of Chemical Engineering, West Virginia University

11:20-11:45am      *Nonlinear Elasticity in Thin films Assembled from Optically and Conductivity  
 Characterized Length Sorted Single Wall Carbon Nanotubes.*  
 Daneesh Simien, Department of Mechanical and Aerospace Engineering, West Virginia University

11:45-12:10pm      *1,2,3-Triazole, A Special Ligand In Tuning Transition Metal Catalyst Reactivity*  
 Xiaodong Michael Shi, Department of Chemistry, West Virginia University

12:10-1:10pm      **Buffet Lunch**      **Grand Hall - A&B**

*Session III: Characterization of Nanomaterials*  
*Room 110 & 111*

1:10-1:35pm      *Advances in Separation Science using Carbon Nanoscopic Materials and Devices*  
 Susan Olesik, Department of Chemistry, Ohio State University

1:35-2:00pm      *Atomic Structure and Chemistry of Dense Nanoprecipitates in MgB<sub>2</sub> Superconductor*  
 Xueyan Song, Department of Mechanical and Aerospace Engineering, West Virginia University

2:00-2:25pm      *Atomic force microscopy studies of neurodegenerative related protein aggregation: technique development and  
 application*  
 Justin Legleiter, Department of Chemistry, West Virginia University

*Session IV: Societal Implications of Nanotechnology*  
**Room 110 & 111**

- 2:45-3:10pm *Religious Reactions to Nanotechnology*  
Chris Toumey, Department of Anthropology, University of South Carolina
- 3:10-3:45pm *Public Literacy and Nano-biotechnology: What are Our Challenges?*  
Eva Toth, Department of Human Resources and Education, West Virginia University
- 3:45-4:10pm *Nanoscience and laboratory techniques: Using one to teach the other*  
Michelle Richards-Babb, Department of Chemistry, West Virginia University

**Break**

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4:15-6:00pm **Poster Session and Reception** **Grand Hall - B&C**