



**CENTER for DIVERSITY in ENGINEERING**  
**INNOVATION Workshop Agenda:**  
**Teaching Nanotechnology within Virginia Standards of Learning**  
**February 11-12, 2011**

**Friday, February 11 (Location: UVA School of Engineering, in the Rodman Room of Thornton Hall)**

- 6:30 pm Dinner & Opening Remarks: Carolyn Vallas, Director of the UVA Center for Diversity in Engineering & Juliet Trail, Research Assistant in UVA Center for Diversity in Engineering
- 7:00 pm Nanotechnology Introduction: Nathan Swami, Associate Professor Graduate Program Director of UVA Department of Electrical and Computer Engineering
- 8:00 pm Adjourn

**Saturday, February 12 (Location: UVA School of Engineering, in E316 of Thornton Hall)**

- 7:00-7:45 am Breakfast Provided at Hampton Inn, Check Out (*Drive time to UVA: approximately 5 min*)
- 8:00 am Arrive at UVA Grounds
- 8:15 am Welcome: Jim Aylor, Dean of UVA School of Engineering & Applied Science
- 8:30 am Overview of Nanotechnology & its Applications: Lisa Friedersdorf, Managing Director of UVA Institute for Nanoscale and Quantum Scientific and Technological Advanced Research (nanoSTAR) and Research Program Manager
- 9:00 am Teaching Nanoscale Behavior through Simple Demos: Jerry Floro, Associate Professor, UVA Department of Materials Science & Engineering
- 10:15 am Break
- 10:30 am Nanotechnology Lessons in Materials Science: Randy Applegate, Technical Education Instructor at Gloucester High School
- 11:00 am Origins of Nanoscience – “Exotic” Molecules & Chemistry in Space: Brooks Pate, William R. Kenan Jr. Professor of Chemistry, UVA
- 12:00 pm Lunch
- 12:30 pm Aerogels – A Nanostructured Material with Fascinating Properties & Unlimited Applications Pam Norris, Frederick Tracy Morse Professor of Mechanical & Aerospace Engineering, UVA
- 1:00pm Symmetry, Fullerenes, Nanotechnology & Other Stuff– Harry C. Dorn, Virginia Tech Professor of Chemistry and Director of Carbonaceous Nanomaterials Centers
- 2:30pm Break
- 2:45 pm LightScribe – The Photolithography of Semiconductors: Eileen Malick, Computer Science Teacher at Atlee High School
- 3:30 pm Nanotechnology – Science & Ethics Panel: Rosalyn Berne, Associate Professor in UVA Department of Science, Technology & Society, and Nathan Swami, Associate Professor Graduate Program Director of UVA Department of Electrical and Computer Engineering
- 4:30 pm Closing Remarks & Adjourn