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
1:00 pm  Symmetry, Fullerenes, Nanotechnology & Other Stuff– Harry C. Dorn, Virginia Tech Professor of Chemistry and Director of Carbonaceous Nanomaterials Centers
2:30 pm  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