

The Department of Materials Science and Engineering invites you to join us for an upcoming Seminar:

John Yates
University of Virginia
Department of Chemistry

Host: Jerry Floro

Talk Title: " Photochemistry on TiO₂-Mechanistic Studies"

Date: Monday, April 6, 2009

Time: 4:00 to 5:00 PM

Refreshments: 3:30 to 4:00

Room: Wilsdorf 101

Abstract:

TiO₂ is widely employed as a photoreceptor in many technologies, including environmental remediation and photovoltaic cells. Using methods of surface science, we have studied the photochemistry of adsorbed O₂ as a method for observing the electronic activation of a TiO₂(110) single crystal. Come and see the role of surface defects, electron-hole pair recombination and hole traps on the efficiency of photochemistry on TiO₂.