



Sabil Huda (Master's student, Grzybowski Group)
(*Cum Laude*) B.S. Chemical Engineering, North Carolina State University, May 2006

Main Research Area: Bio-nano colloidal interactions.

Nanoparticles, because of their small size, large surface area and ability to bind various ligands, have a variety of uses from micro-assays to anti-bacterial coatings and drug delivery. I am interested in studying these interactions between nanoparticles and biomolecules.

Publications and Presentations:

Shalini Gupta, **Sabil Huda**, Peter K. Kilpatrick and Orlin D. Velev. *Characterization and Optimization of Gold Nanoparticle Based Silver Enhanced Immunoassays*. REVISED version submitted to *Anal. Chem.*, February 10, 2007.

Shalini Gupta, **Sabil Huda**, Peter K. Kilpatrick and Orlin D. Velev. *Characterization and Optimization of Gold Nanoparticle Based Silver Enhanced Immunoassays*. Presented at 2005 AICHE National Conference. (Best Poster Award).

Sabil Huda, Deepa Narayan and Angel Lueking. *Intercalation and Exfoliation of Herringbone Graphite Nanofibers*. Presented at the 2005 NNIN REU Convocation.

Sabil Huda, Shalini Gupta, Peter K. Kilpatrick and Orlin D. Velev
Characterization and Optimization of Gold Nanoparticle Based Silver Enhanced Immunoassays. Presented at 2004 AICHE regional conference.

Awards and Scholarships:

AGEP Master's Master's Students - FYM Program (Summer 2006)
AGEP Year-Round Research Assistant (2005-2006)
Energy Institute Mini-Grant, The Pennsylvania State University (Summer 2005)
National Nanoscience Initiative Network Research Assistant (Summer 2005)
AGEP Summer Research Assistant (Summer 2004)

Clubs and Organizations:

Habitat for Humanity (2004-present)
Engineers Without Borders (2005-2006)
American Institute of Chemical Engineers (2004-2006)