

**Opportunities in Nanocatalysis Workshop
Tarrytown House, Tarrytown, New York
October 19-21, 2005**

DRAFT AGENDA

Wednesday, October 19, 2005

- 5:00 – 6:00 p.m. Welcome Reception
- 6:00 – 7:30 p.m. Dinner
- 7:30 – 8:00 p.m. Introduction – Bob Hwang, BNL
DOE Perspective – TBD, DOE
Logistics – Jan Hrbek, BNL
- 8:00 – 8:30 p.m. Supported Metal Nanocluster Catalysts: Synthesis, In-Situ Characterization, Performance, *Bruce Gates (U.C. Davis)*
- 8:30 – 9:00 p.m. Stability of Metal Particles on Surfaces, *Kevin McCarty (Sandia-Livermore)*

Thursday, October 20, 2005

- 7:30 – 8:30 a.m. Breakfast
- 8:30 – 9:00 a.m. In-situ Methods in Nanocatalysis, *Pratibha Gai (DuPont)*
- 9:00 – 9:30 a.m. In-Situ Spectroscopy and Adsorption Modeling of Fuel Cell Electrocatalysts, *Eugene Smotkin (University of Puerto Rico)*
- 9:30 – 10:00 a.m. Joost Frenken, Leiden University (In-Situ Methods)
- 10:00 - 10:30 a.m. Surface Structure and Reactivity of Titanium Dioxide, *Ulrike Diebold (Tulane U.)*
- 10:30 – 11:00 a.m. Coffee Break
- 11:00 – 11:30 a.m. Shimshon Gottesfeld, MTI (Electrocatalysis)
- 11:30 – 12:00 p.m. Maria Flytzani-Stephanopoulos, Tufts U. (Nanoscale Materials)
- 12:00 – 12:30 p.m. Catalysis by Ions and Very Small Metal Clusters Supported On Oxides, *Horia Metiu (U.C. Santa Barbara)*
- 12:30 – 1:30 p.m. Lunch
- 1:30 – 2:00 p.m. Uzi Landman, Georgia Tech (Modeling)
- 2:00 – 2:30 p.m. Logically Derived Catalysts for Fuel Cells: Syntheses, Reactivity and Characterization, *Andrzej Wieckowski (U. Illinois)*

2:30 – 3:00 p.m. Bill Schneider, U. Notre Dame (Modeling)

3:00 – 3:45 p.m. Breakout Session #1

3:45 – 4:15 p.m. Break with posters on display

4:15 – 4:45 p.m. Basic Zeolites as Catalytic Nanoreactors and Promoters, *Robert Davis (U. Virginia)*

4:45 – 5:15 p.m. Scanning Microprobe Studies of Chemical Reactions on Metal Surfaces, *Robert Madix (Stanford University)*

5:15 – 6:00 p.m. Breakout Session #2

6:00 – 7:00 p.m. Report Back/Discussion

7:00 – 9:00 p.m. Dinner

Friday, October 21, 2005

7:30 – 8:30 a.m. Breakfast

8:30 – 9:00 a.m. Don Truhlar, U. Minnesota (Modeling)

9:00 – 9:30 a.m. Photocatalysis on Single Crystal TiO₂, *Mike Henderson (PNNL)*

9:30 – 10:00 a.m. Characterization and Catalysis of Porous Metal Oxide Nanomaterials, *Steven L. Suib (U. Connecticut)*

10:00 - 10:30 a.m. Surface Dynamics at the Single Crystal Electrode/Electrolyte Interface, *Daniel Scherson (Case Western)*

10:30 – 10:45 a.m. Break

10:45 – 11:30 a.m. Breakout Session #3 (Coffee served)

11:30 – 12:30 p.m. Report Back/Discussion

12:30 p.m. Lunch/Departure