

BIOGRAPHICAL SKETCH

Jose A. Rodriguez

Department of Chemistry, Brookhaven National Laboratory, Upton, NY 11973, (631) 344-2246, rodriguez@bnl.gov

Education:

Post-Doctoral Fellow (Chemistry), Texas A&M Univ. 1989-1991 (advisor: D.W. Goodman)

Ph.D., Indiana University (Chemistry) 1988 (advisor: C.T. Campbell)

M.S., Simon Bolivar University (Chem. Eng.) 1985

M.S., Simon Bolivar University (Theoretical Chemistry) 1983

B.S., Simon Bolivar University (Chem. Eng.) 1982

B.S., Simon Bolivar University (Chemistry) 1981

Professional employment:

Senior Chemist, BNL, 2002-present

Chemist with tenure, BNL, 1998-2002

Chemist, BNL, 1995-1998

Associate chemist, BNL, 1993-1995

Assistant chemist, BNL, 1991-1993

Research Associate, Texas A&M University, 1991

Research Assistant, Indiana University, 1986-1988

Instructor of Chemistry, Simon Bolivar University, 1982-1983

Honors and Awards:

Graduate School Dissertation Year Fellowship, Indiana University, 1988-1989.

The Felix Haurowitz Award for outstanding performance as an advanced graduate student in chemistry. Indiana University, 1987-1988.

The Robert Chernin Award for outstanding achievement in first-year graduate research in chemistry. Indiana University, 1985-1986.

Honorable mention for outstanding achievement in research as a MS student in chemistry. Simon Bolivar Univ., 1983.

Research interest: Catalysis, surface science, application of synchrotron-based techniques, theoretical modeling

Service Activities:

Editorial Board of *Surface Science* (Jan 2005 – present)

Editorial Board of *Ciencia, Venezuela* (March 1998 – June 2005)

Publications: more than 250 scientific articles

Publications: relevant to this proposal:

1. J.A. Rodriguez et al. "In Situ Studies of the Active Sites for the Water Gas Shift Reaction over Cu-CeO₂ Catalysts", *J. Phys. Chem. B*, **110** (2006) 428.
2. J.A. Rodriguez et al. "Interaction of Oxygen with ZrC(001) and VC(001): Photoemission and First-Principles Studies", *Phys. Rev. B*, **72** (2005) 075427.
3. J.A. Rodriguez et al. "Experimental and Theoretical Studies on the Reaction of H₂ with NiO: Role of O Vacancies and Mechanism for Oxide Reduction", *J. Am. Chem. Soc.* **124** (2002) 346-354.
4. J.A. Rodríguez, "Chemical Properties of Bimetallic Surfaces", *Progress Surf. Sci.* **81** (2006) 141.
5. J.A. Rodriguez et al. "In Situ Time-Resolved Characterization of Au-CeO₂ and AuO_x-CeO₂ Catalysts during the Water-Gas Shift Reaction", *J. Chem. Phys.* **123** (2005) 221101.