

## JASON F. WEAVER

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### A. Education

<i>Degree</i>	<i>Institution</i>	<i>Field</i>	<i>Year</i>
B.S.	University of Florida	Chemical Engineering	1992
M.S.	University of Florida	Chemical Engineering	1993
Ph.D.	Stanford University	Chemical Engineering	1999

### B. Professional Experience

Associate Professor, University of Florida	08/06-present
Assistant Professor, University of Florida	12/99-08/06
Visiting Scientist, University of Florida,	02/99-12/99

### C. Selected Publications

“STM study of high-coverage structures of atomic oxygen on Pt(111): p(2×1) and Pt oxide chain structures”, S.P. Devarajan, J.A. Hinojosa Jr. and J.F. Weaver, *Surf. Sci.* (2008) in press.

“Growth and properties of high-concentration phases of atomic oxygen on platinum single crystal surfaces”, J.F. Weaver, R.B. Shumbera and H.H. Kan, *J. Phys.: Condensed Matter* 20 (2008) 184015 (*Invited article*).

“A PdO(101) thin film grown on Pd(111) in ultrahigh vacuum”, H.H. Kan and J.F. Weaver, *Surf. Sci. Lett.* 602 (2008) L53-L57.

“Adsorption and abstraction of oxygen atoms on Pd(111): Characterization of the precursor to PdO formation”, H.H. Kan, R.B. Shumbera and J.F. Weaver, *Surf. Sci.* 602 (2008) 1337-1346.

“Molecular chemisorption of O<sub>2</sub> on a PdO(101) thin film on Pd(111)”, J.A. Hinojosa Jr., H.H. Kan and J.F. Weaver, *J. Phys. Chem. C.* 112 (2008) 8324-8331.

“Temperature programmed reaction of CO adsorbed on oxygen-covered Pt(100): Reactivity of high-coverage oxygen phases”, R.B. Shumbera, H.H. Kan and J.F. Weaver, *J. Phys. Chem. C.* 112 (2008) 4232-4241.

“The transition from surface to bulk oxide growth on Pt(100): Precursor-mediated kinetics”, R.B. Shumbera, H.H. Kan and J.F. Weaver, *Surf. Sci.* 601 (2007) 4809.

“Oxidation of Pt(100)-hex- $R0.7^\circ$  by gas-phase oxygen atoms”, R.B. Shumbera, H.H. Kan and J.F. Weaver, *Surf. Sci.* 601 (2007) 235.

“Oxidation of Pt(111) by gas-phase oxygen atoms”, J.F. Weaver, J.-J. Chen and A.L. Gerrard, *Surf. Sci.* 592 (2005) 83.

“Adsorption and reaction of low molecular weight alkanes on metallic single crystal surfaces”, J.F. Weaver, A.F. Carlsson and R.J. Madix, *Surf. Sci. Rep.* 50 (2003) 107.

#### **D. Synergistic Activities:**

1. Organizer, surface science and catalysis sessions for annual meeting of the ACS Colloid and Surface Science division, 2008, North Carolina State University.
2. Organizer, one-day symposium on surface science and catalysis to celebrate the career of Robert J. Madix at the AIChE national meeting in San Francisco, 2006.
3. Coordinator of Area 1g (surface science) of the AIChE, 2001 - 2007.

**E. List of collaborators and co-authors (last 48 months):** A. Asthagiri, J. Chung, H.A.E. Hagelin, D. Hahn, G.B. Hoflund, H. Ingle, L. McElwee-White, K. Ziegler.

#### **F. Graduate Advisors**

Gar B. Hoflund, University of Florida (Masters advisor)  
Robert J. Madix, Stanford University, (Doctoral advisor)

**G. Former and current doctoral students:** A. Gerrard (Intel), P.E. Herrera-Morales (Intel), J.-J. Chen, H. Kan, C. Hakanoglu, J. Hinojosa, S. Devarajan, R. Shumbera (Bryan Corp.), R. Colmyer.