

CURRICULUM VITAE

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Education

- University of Kansas, Lawrence, KS
Doctoral degree in Chemistry (May 2013)
Focus: Physical Chemistry/Nanoscale Fabrication and Surface Science
Thesis Title: Nanoscale Manipulation of Surfaces and Interfaces: Engineering Electrical Properties Through Nanofabrication
Research Advisor: Professor Cindy L. Berrie
- Texas A&M University-Corpus Christi, Corpus Christi, TX
B.S. degree in Chemistry (December 2006)

Awards

- Ray Q. Brewster Award – advanced graduate teaching award 2012, University of Kansas

Teaching experience (as Assistant Professor at Angelo State University)

- Chemistry 1411 – General Chemistry I Lecture and Laboratory
- Chemistry 1412 – General Chemistry II Lecture and Laboratory
- Chemistry 3361 – Physical Chemistry I Lecture and Laboratory
- Chemistry 3362 – Physical Chemistry II Lecture and Laboratory

Teaching experience (as Teaching Assistant)

- Chemistry 184 – Foundations of Chemistry I (KU)
- Chemistry 3417 – Quantitative Analysis (TAMU-CC)
- Chemistry 641 – Biological Physical Chemistry Laboratory (KU)
- Chemistry 646 – Physical Chemistry I (KU)
- Chemistry 647 – Physical Chemistry I Laboratory (KU)
- Chemistry 649 – Physical Chemistry II Laboratory (KU)
- Graduate mentor to an NSF REU Student (Zachary Bushman), 2012

Professional organization memberships

- American Chemical Society
- American Vacuum Society

Research experience

- Doctoral research (with Prof. Cindy L. Berrie, University of Kansas, 2007-2013)
- Undergraduate research (with Prof. Timothy P. Causgrove, Texas A&M University-Corpus Christi)

Presentations

- 2012 Kansas Physical Chemistry Symposium – Surface Potential Mapping of Azulene Derivatives Adsorbed on Graphite, **Smith, G. J.**, Berrie, C. L. Oct. 27, 2012, Manhattan, KS.
- 2012 Kansas NSF-EPSCoR Kansas Center for Solar Energy Research Annual Program Review – Surface Potential Mapping of Azulene Derivatives Adsorbed on Graphite, **Smith, G. J.**, Berrie, C. L. June 10-11, 2012, Wichita, KS.
- 2011 Kansas Physical Chemistry Symposium – Investigating the Dye-Titania Interface for Dye-Sensitized Solar Cells, **Smith, G. J.**; Murphy, R.; Harrington, S.; Berrie, C. L. Nov. 19, 2011, Lawrence, KS.
- 2011 AVS 58th International Symposium and Exhibition – Nanoscale Surface Patterning for Controllable Metal Deposition, **Smith, G. J.**; Berrie, C. L. Oct. 30-Nov. 4, 2011, Nashville, TN.
- 2011 Kansas NSF-EPSCoR Kansas Center for Solar Energy Research Annual Program Review – Investigating the Dye-Titania Interface for Dye-Sensitized Solar Cells, **Smith, G. J.**; Murphy, R.; Berrie, C. L. June 12-14, 2011, Manhattan, KS.
- 2010 Kansas Physical Chemistry Symposium – Towards Copper Nanostructure Formation Using SAMs on Gold and Silicon Substrates, **Smith, G. J.**; Berrie, C. L. Nov. 13, 2010, Manhattan, KS.
- 2010 ACS Midwest Regional Meeting – Towards Copper Nanostructure Formation Using SAMs on Gold and Silicon Substrates, **Smith, G. J.**; Berrie, C. L. Oct. 27-29, 2010, Wichita, KS.
- 2009 Kansas Physical Chemistry Symposium – Electroless Plating of Cu on Organic SAMs for Nanowire Formation, **Smith, G. J.**, Berrie, C. L. Nov. 7, 2009, Lawrence, KS.
- 2008 Kansas Physical Chemistry Symposium – Electroless Plating of Cu on Mercaptoundecanoic Acid SAMs for Nanowire Formation, **Smith, G. J.**, Berrie, C. L. Nov. 1, 2008, Manhattan, KS.

Techniques and skills

- Atomic force microscopy, conductive probe atomic force microscopy, kelvin force probe microscopy
- Ellipsometry
- Goniometry
- Training in infrared spectroscopy including reflection absorption infrared spectroscopy (RAIRS), UV-Vis spectroscopy, bomb calorimetry, laser-induced fluorescence, pump-probe spectroscopy
- Proficiency with Microsoft Office, ChemBioDraw
- Experience with Gaussian, Hyperchem