

Michael J. Poston

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Education

Graduate Student in Chemistry
Georgia Institute of Technology, Atlanta, GA
August 2008-Current

Bachelor of Science in Chemistry
Wisconsin Lutheran College, Milwaukee, WI
August 2000 - May 2004
3.65 / 4.00 GPA over 134 credits
Minors: Physics, Math

Research Experience

Graduate Student
Georgia Institute of Technology, Atlanta, GA
Advisor: Dr. Thomas Orlando
2007-Current
Project will explore the photocatalytic decomposition of water on various nanoparticle surfaces.

Research Assistant
Wisconsin Lutheran College, Milwaukee, WI
Advisor: Dr. Daniel Ebeling
June 2003 - August 2003
A method for determining total phosphorus content in lake water and sediment samples was developed using UV-Vis spectroscopy as the sensor. A poster was presented by Dr. Daniel Ebeling at the 2004 Soil Science Society of America International Meeting, Seattle, WA.

Research Assistant
Wisconsin Lutheran College, Milwaukee, WI
Advisor: Dr. Keith Beyer
May 2002 - August 2002
Thin-film FT-IR spectra and DSC data were collected for phase identification and enthalpies of formation. Determined how many and which species of sulfuric acid hydrates were formed under stratospheric temperature conditions.

Teaching Experience

Teaching Assistant
Georgia Institute of Technology, Atlanta, GA
August 2007-Current
Chem 1313 – Quantitative Analysis Laboratory

Industry Experience

Laboratory Specialist

Micromeritics Analytical Services, Norcross, GA

June 2004 – August 2007

Maintained instrumentation, collected data, adapted methods, and analyzed results for physi-sorption and chemi-sorption *surface analyses*, and laser and sedimentation *particle size analyses*. Educated customers and new hires on scientific theory and proper operation of Micromeritics instrumentation. Initiated a study comparing results of non-spherical particles among various particle sizing techniques. Also served on Safety Team and Quality Improvement Team.

Marketing Intern

Thermo Electron Molecular Spectroscopy Division, Madison, WI

May 2002 - August 2002 and December 2002 - January 2003

Performed beta testing on Thermo FT-IR and FT-NIR Spectrometers and Software in support of marketing and engineering staff. Also collected spectra for an anti-terrorism ATR library.

Publications

Beyer, Keith D.; Hansen, Anne R.; *Poston, Michael*. "The search for sulfuric acid octahydrate: Experimental evidence." *Journal of Physical Chemistry A* (2003), 107(12), 2025-2032.

Awards

Georgia Institute of Technology Presidential Fellowship 2008
Wisconsin Lutheran College Presidential Scholarship 2000-2004
Wisconsin Academic Excellence Scholarship 2000-2004
AAL Scholarship 2000-2004
Wal-Mart Employee Scholarship 2000

Memberships

American Chemical Society 2004-Current