

CHRISTOPHER M. BENDER

Curriculum Vitae as of March 2015

Division of Natural Sciences and Engineering
University of South Carolina-Upstate
800 University Way
Spartanburg, SC 29303

Phone: 864/503-5755
FAX: 864/503-5366
cbender@uscupstate.edu
<http://faculty.uscupstate.edu/cbender>

Education

PhD, Cornell University, August 1998 (Inorganic Chemistry (with a minor in Materials Science))
MS, Cornell University, August 1995 (Inorganic Chemistry)
BS, University of Central Florida, May 1993 (Chemistry)

Employment

2004-present, USC-Upstate, Associate Professor of Chemistry
1998-2004, USC-Upstate (formerly USC-Spartanburg), Assistant Professor of Chemistry
1993-1998, Cornell University, graduate student (research and teaching assistant)

Honors and Awards

Doc's List (Student Gov't Association Appreciation Award) (2003 and 2011)
Bank of America Excellence in Teaching and Advising Award (2002)
Vice Chancellor for Student and Diversity Affairs Award (2002)
Who's Who Among America's Teachers (2002)
USC-Upstate Impact Faculty Member of the Year (for Outstanding Service) (2000)
DuPont Teaching Award (Cornell University) (1995)

Courses Taught at USC-Upstate through Spring 2015 [# of semesters]

Fundamentals of Chemistry Lab (CHEM 101L) [6]
General Chemistry I (CHEM 111) [43]
General Chemistry I Lab/Recitation (CHEM 111L) [28]
General Chemistry II Lab/Recitation (CHEM 112L) [6]
Quantitative Analysis (CHEM 321) and lab [9]
Internships in Chemistry (CHEM 395)-2 students [3]
Undergraduate Research (CHEM 499)-2 students [2]
Inorganic Chemistry Lecture (CHEM 511) [10]
Instrumental Methods (CHEM 522) and lab [5]
Junior/Senior Seminar (CHEM 397/599) [4/3]

Service to USC-Upstate

Academic Affairs Committee (2014-present)
Chemistry Club Advisor (1999-2004, 2010-present)
Community Garden Advisor (2013-present)
Diversity Committee (2000)
Environmental Advisory Committee (2010-2014)
Faculty Senate (2009-2012)
Graduate Committee (2003-2004, chair)
Honors Committee (1999, 2012-present)

Interdisciplinary Studies Committee (2002)
NSE Scholarship Committee (2004-2011)
Peer Review Committees (NSE 2004-2010, 2012-2013; FACS 2008-2009; Informatics 2011, 2013; Library 2008, 2012; MCS 2009-2010)
Phi Kappa Phi Honor Society, Grants and Scholarships Coordinator (2003-2012)
Refund Committee (2002-present)
Return to Learn Taskforce (2009)
Science Fair Committee, Judge Coordinator (1998-present)
Student Affairs Committee (1999-2002, chair from 2000-2002, 2013)
Task force on Student Feedback (1999)
Task force on Sexual Harassment (1999)
Search Committees [*Physics Instructor (1999)* • *Chemistry, Organic Chemist (2001, 2002, 2006)* • *Chemistry Instructor (2009, 2013)* • *Chemistry Analytical Chemist (2011, 2012)* • *FALL Division Chair (1999)* • *English, Composition Instructor (2002)* • *English, Linguistics (2005)* • *English, American Lit (2006)* • *Assistant Student Life Director (2001)* • *Housing Director (2002)* • *Lab Manager(2001, 2006)* • *NSE Division Chair (2004)* • *Nursing Dean (2005)*]

Professional Affiliations

American Chemical Society (member since 1995)

- 2005 Chair of the local section, Western Carolinas
- 2006-2008 Olympiad Coordinator for Western Carolinas Section

Materials Research Society (1997-2006)

Publications

5. Jinxin Gao, Christopher M. Bender, and Catherine J. Murphy “Dependence of Gold Nanorod Aspect Ratio on the Nature of the Directing Surfactant in Aqueous Solution” *Langmuir* (*Langmuir* **2003**, 19, 9065-9070).
4. K. K. Caswell, Christopher M. Bender, and Catherine J. Murphy “Seedless, Surfactantless Wet Chemical Synthesis of Silver Nanowires” in *NanoLetters* (*NanoLett.* **2003**, 3(5), 667-669).
3. Jack A. Turner, Christopher M. Bender; Jason Clark, Francis Skipper “Water Quality in Cowpens National Battlefield” report to the National Parks Service summer 2001.
2. Christopher M. Bender, James M. Burlitch, Duane B. Barber, Clifford R. Pollock "Synthesis and Fluorescence of Neodymium-Doped Barium Fluoride Nanoparticles" in *Chemistry of Materials* (*Chem Mater* **2000**, 12, 1969-1976).
1. Barber, D. B.; Pollock, C. R.; Beecroft, L.L.; Ober, C. K.; Bender, C. M.; Burlitch, J. M. “Amplification by Optical Composites” in *Advanced Solid State Lasers*; Pollock, C. R. and Bosenberg, W. R., Eds.; OSA TOPS Vol. 10; Optical Society of America: Washington, DC, 1997; pp 386-389.

Book Chapters

1. Bender, Christopher M.; Chemistry Chapter. In *CliffsTestPrep ASVAB*; Grayson, Fred N., Ed.; Wiley Publishing: New York, 2003; pp 67-78.

Presentations

9. **Regina Dillinger**, Christopher M. Bender “Control of Gold Nanoparticle Size Using Urea”, Poster presentation at Ninth Annual SC Upstate Research Symposium, Spartanburg, SC, April 19, 2013.

8. **Jinxin Gao**, Christopher M. Bender, and Catherine J. Murphy "Dependence of gold nanorod aspect ratio on the nature of the directing surfactant in aqueous solution", paper number 118. Presentation at the 226th ACS National Meeting, New York, NY, September 7-11, 2003.

7. **Christopher M. Bender**, Jack A. Turner, Jason Clark, Francis Skipper (*Invited*) "Environmental Research on the Cowpens Battlefield Watershed" Presented at the Fall meeting of the Junior Academy of Sciences, Converse College (October 21, 2000)

6. **Christopher M. Bender**,* James M. Burlitch,* Duane B. Barber,[§] and Clifford R. Pollock,[§] *Department of Chemistry and [§]School of Electrical Engineering, Cornell University “Synthesis of Pr and Yb Co-doped Nano-crystallites for Optical Composites,”. Presented at 212th Annual American Chemical Society Meeting, Orlando, FL, August 1996, poster INOR 335.

5. Christopher M. Bender,* **James M. Burlitch**,* Duane B. Barber,[§] and Clifford R. Pollock,[§] *Department of Chemistry and [§]School of Electrical Engineering, Cornell University. “Synthesis of Doped Nano-crystallites for Optical Composites,” Presented at 211th Annual American Chemical Society Meeting, New Orleans, LA, March 1996; paper INOR 654.

4. **Michael Hampton**, James Slattery, and Christopher Bender, “A New System for Evaluation of Chemical and Thermodynamic Characteristics of Hydrogen Storage Compounds”, DOE/NREL Hydrogen Program Review Meeting, Cocoa Beach, FL, May, 1993.

3. James Slattery, Christopher Bender, and Michael Hampton, “Coupled Differential Scanning Calorimetry, Pressure Measurement, and Gas Chromatography as a Technique for Evaluating the Suitability of Metals for Hydrogen Storage”, 1993 Annual Meeting of the Florida American Chemical Society, Orlando, FL, May, 1993.

2. James Slattery, Christopher Bender, and Michael Hampton, “Determination of the Thermal Properties of Metal Hydrides Upon Hydrogen Uptake and Release”, Annual Meeting of the Florida Section American Chemical Society, Tampa, FL, May, 1991.

1. **M. D. Hampton**, C. Bender, and J. Slattery, “Determination of the Hydriding Characteristics of Alkali Metal and Alkaline Earth Metal Hydrides by Thermal Analytical Methods”, 20th

Annual Conference of the North American Thermal Analysis Society, Minneapolis, MN, Sept., 1991.