

CHRISTOPHER M. BENDER

Curriculum Vitae as of December 2006

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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)
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 Fall 2006 [# of semesters]

General Chemistry I (SCHM W111) [19]
General Chemistry I Lab/Recitation (SCHM W111L) [9]
General Chemistry II Lab/Recitation (SCHM W112L) [4]
Quantitative Analysis (SCHM W321) and lab [5]
Internships in Chemistry (SCHM W395)- 2 students [3]
Undergraduate Research (SCHM W499)- 2 students [2]
Inorganic Chemistry Lecture (SCHM W511) [4]
Instrumental Methods (SCHM W522) and lab [4]
Junior/Senior Seminar (SCHM 397/599) [2/2]

Service to USC-Upstate

Chemistry Club Advisor (1999-2004)
Diversity Committee (2000)
Graduate Committee (2003-2004, chair)
Honors Committee (1999)
Interdisciplinary Studies Committee (2002)
NSE Scholarship Committee (2004-present)
NSE Peer Review Committee (2004-present)
Phi Kappa Phi Honor Society, Grants and Scholarships Coordinator (2003-present)
Refund Committee (2002-present)
Science Fair Committee, Judge Coordinator (1998-present)
Student Affairs Committee (1999-2002, chair from 2000-2002)
Task force on Student Feedback (1999)
Task force on Sexual Harassment (1999)
Search Committees [*Physics Instructor* (1999) • *Chemistry, Organic Chemist* (2001, 2002, 2006) • *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-present Olympiad Coordinator for Western Carolinas Section

Materials Research Society (1997-2006)

Publications

1. 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).
2. 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. Bender, Christopher M.; Chemistry Chapter. In *CliffsTestPrep ASVAB*; Grayson, Fred N., Ed.; Wiley Publishing: New York, 2003; pp 67-78.
4. Jack A. Turner, Christopher M. Bender; Jason Clark, Francis Skipper "Water Quality in Cowpens National Battlefield" report to the National Parks Service summer 2001.
5. 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).
6. 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.

Presentations

1. 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.
2. (*Invited*) "Environmental Research on the Cowpens Battlefield Watershed," Christopher M. Bender, Jack A. Turner, Jason Clark, Francis Skipper. Presented at the Fall meeting of the Junior Academy of Sciences, Converse College (October 21, 2000)
3. "Synthesis of Pr and Yb Co-doped Nano-crystallites for Optical Composites," Christopher M. Bender,* James M. Burlitch,* Duane B. Barber,§ and Clifford R. Pollock,§ *Department of Chemistry and §School of Electrical Engineering, Cornell University. Presented at 212th Annual American Chemical Society Meeting, Orlando, FL, August 1996, poster INOR 335.
4. "Synthesis of Doped Nano-crystallites for Optical Composites," Christopher M. Bender,* James M. Burlitch,* Duane B. Barber,§ and Clifford R. Pollock,§ *Department of Chemistry and §School of Electrical Engineering, Cornell University. Presented at 211th Annual American Chemical Society Meeting, New Orleans, LA, March 1996; paper INOR 654.