

# CYNTHIA P. TIDWELL

UM Station 6480 • Montevallo, AL 35115 • (205)665-6482 • tidwellc@montevallo.edu

## EDUCATION

**Doctorate of Philosophy in Chemistry**, May 2001, GPA: 3.9/4.0  
University of Alabama, Tuscaloosa, Alabama

**Bachelor of Science Degree**, May 1994, GPA: 3.9/4.0  
University of Montevallo, Montevallo, Alabama  
Majors: Mathematics and Chemistry

## TEACHING EXPERIENCE

**Professor of Chemistry**, August 2013-Present

Biology, Chemistry and Mathematics Department, University of Montevallo, Montevallo, Alabama

**Associate Professor of Chemistry**, May 2008-2013

Biology, Chemistry and Mathematics Department, University of Montevallo, Montevallo, Alabama

**Assistant Professor of Chemistry (tenure track)**, August 2002 – May 2008

Biology, Chemistry and Mathematics Department, University of Montevallo, Montevallo, Alabama

**Assistant Professor of Chemistry (full-time, temporary)**, July 2001-July 2002

Biology and Chemistry Department, University of Montevallo, Montevallo, Alabama

**Adjunct Instructor of Mathematics**, August 2000-December 2000

Mathematics Department, University of Montevallo, Montevallo, Alabama

**Adjunct Instructor of Chemistry**

Birmingham Southern College, Birmingham, Alabama, February 2000-June 2000

University of Montevallo, Montevallo, Alabama, August 1999-December 1999

**Courses Taught** (\* laboratory included)

Organic Chemistry I*	Physical Biochemistry	Basic Chemistry*	Intermediate Algebra
Organic Chemistry II*	Physical Chemistry I*	General Chemistry I*	Finite Mathematics
Analytical Chemistry*	Chemistry Senior Seminar	General Chemistry II*	Precalculus Algebra
Introductory Biochemistry	Undergraduate Research*	Biochemistry*	Chemical Computations
Introductory Chemistry*	Special Projects in Chemistry*	Mathematics for Elementary School Teachers	

## NATIONAL AND INTERNATIONAL PEER REVIEWED PUBLICATIONS (\*-student)

1. Tidwell, Cynthia; Bharara, Prakash; Belmore, Kenneth; Liang, Qiaoli; Dye, Gregory; Jarrett, Kevin; McKinney, William; Su, Ting Yu; Tidwell, Trever, "Synthesis and Spectral Evaluation of 5,10,15,20-Tetrakis-(3,4-dibenzoyloxyphenyl)porphyrin." *Heterocyclic Chemical Communications* HC.2016.0188, **2017**, 23(2), 79-83.
2. Mathews, Dalila; Tidwell, Cynthia; Bharara, Prakash; Stephens, Glenn; Su, Ting Yu; Carter, Alexia, "Copper 5,10,15,20-Tetrakis-(3,4-dibenzoyloxyphenyl) Porphyrin" *Molbank* **2017**, 2017(1), M931; doi:10.3390/M931
3. Tidwell, C.P.; Fondren, L.D.; Nikles, D.E. Copper 5,10,15,20-Tetra(N-ethyl-3-carbazoyl) Porphyrin. *Molbank* **2011**, M716.
4. Cynthia P. Tidwell, Lillian D. Fondren, David E. Nikles, Manganese 5,10,15,20-tetra(N-ethyl-3-carbazoyl) porphyrin. *MolBank* **2010**, M656.
5. C. P. Tidwell, L. A. Alexander\*, L. D. Fondren\*, K. Belmore, and D. E. Nikles, "Synthesis and Characterization of 5,10,15,20-Tetra(N-ethyl-3-carbazoyl) Porphyrin" *Indian Journal of Chemistry* Vol. 46B, **October 2007**, 1658-1665.
6. Cynthia P. Tidwell, Prakash Bharara, Gretchen Rudeseal\*, Tiffany Rudeseal\*, Frank H. Rudeseal, Jr. \*, Christine A. Simmer\*, Dugald McMillan\*, Katherine Lanier\*, L. Dalila Fondren\*, LaTasha L. Folmar\*, and

Ken Belmore, "Synthesis and Characterization of 5,10,15,20-Tetra[3-(3-trifluoromethyl)phenoxy] Porphyrin" *Molecules* **2007**, *12*, 1389-1398.

7. C. P. Tidwell, P. Bharara, T. A. Rudeseal\*, G. M. Rudeseal\*, K. Belmore, M.J. Bailey\*, J. T. Hubbard\*, "Synthesis and Characterization of 5,10,15,20-Tetrakis [3-(3,4-Dichlorophenoxy)] Porphyrin and Some of Its Metal Complexes" *Heterocyclic Communication*, Vol 13, No. 6, **2007**, 353-358.
8. Houston Byrd and Cynthia P. Tidwell, "Comparisons of Quantitative Methods Through Analyses of TUMS®" *The Chemical Educator*, **2007**, *12*, 353-355.

#### **UNDERGRADUATE JOURNAL PUBLICATIONS**

9. Greg Dye, Cynthia P. Tidwell, Ken Belmore, Investigation of a Hexanes-Ethyl Acetate Solvent System for Use in the Purification Processes of 5,10,15,20-Tetra(N-Ethyl-3-Carbazoyl)Porphyrin and 5,10,15,20-Tetra(3,4-Dibenzyloxy)Porphyrin, *NCUR Proceedings*, **2010**, 1915-1921.
10. Tiffany Rudeseal\*, Gretchen Rudeseal\*, Cynthia P. Tidwell, Ken Belmore, "Synthesis and Characterization of Tetra [3-(3, 4-Dichlorophenoxy)] Porphyrin" *NCUR Proceedings* **2006**.
11. Katherine L. Lanier\*, Dugald R. McMillan\*, Christine A. Simmer\*, Frank H. Rudeseal, Jr. \*, Lillian D. Fondren\*, LaTasha L. Folmar\*, Ken Belmore, Prakash Bharara, and Cynthia P. Tidwell, Synthesis and Characterization of 5,10,15,20-Tetra[3-(3-Trifluoromethyl)-Phenoxy] Porphyrin and Its Metal Complexes *NCUR Proceedings* **2005**.
12. L. Dalila Fondren\*, Martin G. Bakker, Cynthia P. Tidwell Laser Flash Photolysis Studies of Zinc 5,10,15,20-Tetra(9-ethyl-3-carbazoyl) Porphyrin *NCUR Proceedings* **2004**.

#### **GRANTS AWARDED**

1. Greening Rotary Evaporation: Reduction of Water and Energy Use in Chemistry Labs, Cynthia P. Tidwell, University of Montevallo Green Fund, \$5250, Fall 2016.
2. Quantum Yield Determination of 5,10,15,20-Tetrakis-(3,4-bis-benzyloxy-phenyl)porphyrin, Cynthia P. Tidwell, University of Montevallo Research & Special Projects, \$1208.56, Fall 2015.
3. Innovative Photodynamic Therapy Agents: Utilization of Porphyrins in Medicine, Cynthia P. Tidwell, University of Montevallo Research & Special Projects, \$1237, Fall 2008.
4. Laser Flash Photolysis of The Metal Complexes of 5,10,15,20 Tetra [N-Ethyl-3-Carbazoyl] Porphyrin, Cynthia P. Tidwell, University of Montevallo Research & Special Projects, \$1605, Fall 2006.
5. Synthesis and Characterization of Gallium Chloride 5,10,15,20-Tetra (N-ethyl-3-carbazoyl) Porphyrin and Gallium Hydride 5,10,15,20-Tetra(N-ethyl-3-carbazoyl) Porphyrin, Prakash Bharara, Stephen O'Donnell & Cynthia Tidwell, University of Montevallo Research & Special Projects, \$905, Fall 2006.
6. "Determination of Cytotoxicity Of 5,10,15,20 Tetra[N-Ethyl-3-Carbazoyl] Porphyrin and Its Possible Usefulness In Cancer Therapy" Casey N. Bassett and Cynthia P. Tidwell, University of Montevallo Research & Special Projects, \$687, Fall 2005.
7. "Characterization of 5,10,25,20-Tetra[3-(3-Trifluoromethyl)-Phenoxy] Porphyrin Using Cyclic Voltammetry" Cynthia P. Tidwell, University of Montevallo Research & Special Projects, \$943, Fall 2004.
8. "Investigations of 5,10,15,20 Tetra [3-(3-Trifluoromethyl)-Phenoxy] Porphyrin As A Transport Molecule For Pyrimidine Analog Antimetabolites" Cynthia P. Tidwell, Frank H. Rudeseal, Jr., and Christine A. Simmer, University of Montevallo Research & Special Projects, \$1730, Fall 2003.

#### **PRESENTATIONS AT AMERICAN CHEMICAL SOCIETY MEETINGS AND OTHER SCIENTIFIC MEETINGS**

1. Tidwell, Cynthia P.; Bharara, Prakash; Palacio, Hayes; Ezell, Andrew; Tidwell, Trever, "Synthesis and spectroscopic investigations of the zinc and manganese complexes of 5,10,15,20-tetra[3,4-dibenzyloxy] porphyrin" 68th Southeastern Regional Meeting of the American Chemical Society, Columbia, SC, United States, October 23-26 (2016), SERMACS-1050.
2. Mathews, Lillian D.; Stephens, William G.; Tidwell, Cynthia P.; Bharara, Prakash, "Copper 5, 10, 15, 10-tetrakis-(3,4-bis-benzyloxyphenyl) porphyrin" 68th Southeastern Regional Meeting of the American Chemical Society, Columbia, SC, United States, October 23-26 (2016), SERMACS-1023.
3. Prakash C. Bharara, Cynthia P. Tidwell, Lillian D. Mathews, Alexia Carter, Katherine Savell, Will McKinney, Ting Yu Su, Trever Tidwell, Kevin Jarrett, Ken A Belmore, "Synthesis and spectroscopic investigations of 5,10,15,20-tetra[3,4-dibenzyloxy]porphyrin and some of its metal complexes." 66<sup>th</sup> Southeastern Regional Meeting of the American Chemical Society, October 2014 Nashville, TN

4. Houston Byrd, Caroline Karanja, Alston Whiten, Prakash Bharara, Cynthia Tidwell “Synthesis of acetals using aldehydes and alcohols” 247<sup>th</sup> ACS National Meeting in Dallas, Texas, March 16-20, 2014.
5. William McKinney, Cynthia P. Tidwell, Prakash Bharara, “Synthesis and characterization of a novel porphyrin” 245<sup>th</sup> ACS National Meeting in New Orleans, Louisiana, April 7-11, 2013.
6. William McKinney, Cynthia P. Tidwell, Prakash Bharara, “Synthesis and characterization of a novel porphyrin” 90<sup>th</sup> Annual Meeting of the Alabama Academy of Science, Inc. Samford University, March 20-22, 2013.
7. Anny Su, Cindy Tidwell, Prakash Bharara, and Ken Belmore “Synthesis and characterization of a novel porphyrin” 89<sup>th</sup> Annual Meeting of the Alabama Academy of Science, Inc. Tuskegee, Alabama, February 22-24, 2012.
8. Alston Whiten, Cindy Tidwell, Prakash Bharara, “Investigating acetal formation using GC-MS” 89<sup>th</sup> Annual Meeting of the Alabama Academy of Science, Inc. Tuskegee, Alabama, February 22-24, 2012.
9. James L. Connor, C. Michele Davis-McGibony, and Cynthia P. Tidwell, “Biochemical Analysis of Potential Photodynamic Therapy Agents” 237<sup>th</sup> National American Chemical Society Meeting & Exposition, Salt Lake City, UT March 22-26, 2009.
10. Cynthia P. Tidwell, Prakash Bharara, Gretchen Rudeseal, Tiffany Rudeseal, Frank H. Rudeseal, Christine A. Summer, Dugald McMillan, Katherine Lanier, L. Dalila Fondren, LaTasha L. Folmer and Ken Belmore, “Synthesis and Characterization of 5,10,15,20-Tetra[3-(3-trifluoromethyl) phenoxy] Porphyrin”, Heterocyclic and Heteroatoms Conference, Cancun, 25-28 February 2008.
11. Cynthia P. Tidwell, Houston Byrd, “Comparative study of atomic absorption spectroscopy, EDTA titration, and gravimetric analysis of calcium in antacid tablets for an undergraduate chemistry laboratory” 231<sup>st</sup> National American Chemical Society Meeting & Exposition, Atlanta, GA March 26-30, 2006.
12. Gretchen M. Rudeseal\*, Tiffany A. Rudeseal\*, Cynthia P. Tidwell, Ken Belmore, “Synthesis and characterization of tetra [3-(3, 4-dichlorophenoxy)] porphyrin” 231<sup>st</sup> National American Chemical Society Meeting & Exposition, Atlanta, GA March 26-30, 2006.
13. Leslie A. Alexander\*, Cynthia P. Tidwell, Casey N. Bassett, “Determination of cytotoxicity of 5,10,15,20 tetra [n-ethyl-3-carbazoyl] porphyrin and its possible usefulness in cancer therapy” 231<sup>st</sup> National American Chemical Society Meeting & Exposition, Atlanta, GA March 26-30, 2006.
14. Cynthia P. Tidwell, Martin G. Bakker, Ken Belmore, L. Dalila Fondren\*, David E. Nikles, “Synthesis and characterization of 5,10,15,20-tetra(N-ethyl-3-carbazoyl) porphyrin and its manganese, cobalt, nickel, copper, and zinc complexes” Third International Conference of Porphyrins and Phthalocyanines, New Orleans, Louisiana, 2004. Abstract published in *J. Porphyrins Phthalocyanines* 2004; 8: 864.
15. L. Dalila Fondren\*, Martin G. Bakker, Cynthia P. Tidwell, “Laser Flash Photolysis Studies Of Zinc 5,10,15,20 Tetra (9-Ethyl-3-Carbazoyl) Porphyrin” Eighty-First Annual Meeting of the Alabama Academy of Science, Montevallo, Alabama, 2004.
16. Christine A. Simmer\*, Frank H. Rudeseal, Jr.\*, Lillian D. Fondren\*, LaTasha L. Folmar\*, Ken Belmore, Prakash Bharara, Cynthia P. Tidwell, “Synthesis and Characterization of Metal Complexes of Tetra[3-(3-Trifluoromethyl)-Phenoxy] Porphyrin” Eighty-First Annual Meeting of the Alabama Academy of Science, Montevallo, Alabama, 2004.
17. L. Dalila Fondren\*, Martin G. Bakker, Cindy P. Tidwell, “Laser Flash Photolysis Studies of Zinc 5,10,15,20 tetra(9-ethyl-3-carbazoyl) porphyrin” 55<sup>th</sup> Southeast Regional Meeting of the American Chemical Society, Atlanta, Georgia, November 16-19, 2003.
18. Frank H. Rudeseal, Jr.\*, Christine A. Simmer\*, L. Dalila Fondren\*, LaTasha L. Folmar\*, Cynthia P. Tidwell, Ken Belmore, Prakash Bharara, “Synthesis and Characterization of Tetra [3-(3-trifluoromethyl)-phenoxy] Porphyrin” 55<sup>th</sup> Southeast Regional Meeting of the American Chemical Society, Atlanta, Georgia, November 16-19, 2003.
19. David E. Nikles, Myung Joong Kim, Cindy Tidwell, “Can a Photoinduced Electron Transfer Reaction Occur In PhCoTPP or PhCoTECP?” 218<sup>th</sup> ACS National Meeting, New Orleans, August 22-26, 1999.
20. C. P. Tidwell, and D. E. Nikles, “Synthesis and Spectroscopic Properties of Tetrakis(9-ethyl-3-carbazole)21H,23H-porphyrin” 216<sup>th</sup> National American Chemical Society Meeting in Boston, Massachusetts, August 1998.
21. C. W. Pruitt and D. E. Nikles, “New Optical Recording Processes in Thin Materials Containing Transition Metal Porphyrins” 210<sup>th</sup> National American Chemical Society Meeting in Chicago, Illinois, August 1995.

22. T. J. Moran, C. W. Pruitt, D. E. Nikles, "Reversible Photochemical Electron Transfer Processes in Thin Films Containing Manganese (III) Tetraphenyl Porphyrin Chromophores in a Polyvinylcarbazole Matrix" 7<sup>th</sup> Annual Alabama Materials Science Research Conference; University of Alabama in Huntsville, 1993.

### ***OTHER PRESENTATIONS***

23. Hayes Palacio, Cynthia Tidwell, Prakash Bharara, Trever Tidwell, Katherine Savell, Steven Sartor, "Synthesis and Characterization of the Zinc Complex of 5,10,15,20-tetra[3,4-dibenzyloxyphenyl]porphyrin" NCUR 2017, Memphis, TN.
24. Andrew Ezell, Cynthia Tidwell, Prakash Bharara, Katherine Savell, Trever Tidwell, Andrea Willard, "Synthesis and Characterization of the Manganese Complex of 5,10,15,20-tetra[3,4-dibenzyloxyphenyl]porphyrin" NCUR 2017, Memphis, TN.
25. William Stephens, Dalila Mathews, Cynthia Tidwell, Prakash Bharara, "The Synthesis and Characterization of Copper 5,10,15,20-tetrakis-(3,4-bis-benzyloxyphenyl)porphyrin" 19<sup>th</sup> Annual University of Montevallo Undergraduate Research Day, March 2016.
26. Eileen Larsen, Cynthia P. Tidwell, Dalila Mathews, and Prakash C. Bharara, "Making Lab Green"- Reducing Waste, Pollution, and Expenses in Undergraduate Organic Chemistry Laboratories with the Microwave Chemistry Technique, Undergraduate Research Day 2015.
27. Andrea Willard, Cynthia P. Tidwell, Prakash C. Bharara, and Dalila Mathews, Synthesis and Characterization of Manganese 5,10,15,20-Tetrakis-(3,4-bis-benzyloxy-phenyl)-porphyrin, Undergraduate Research Day 2015. Andrea was selected to go to the COPLAC Regional Undergraduate Research Meeting but was unable to go due to transportation deficiencies.
28. Alexia Carter, Cynthia P. Tidwell, Dalila Mathews, and Prakash C. Bharara, Copper Porphyrin, Undergraduate Research Day 2015.
29. Anny Su, Cynthia P. Tidwell, Prakash C. Bharara, and Ken Belmore "Synthesis and Characterization of a Novel Porphyrin" Council of Public Liberal Arts Colleges 2012 Regional Undergraduate Research Conference at Georgia College and State University, Milledgeville, Georgia. April 13-14, 2012.
30. Tidwell, Cindy; Truss, Ruth, "Supporting Student Presentations through Undergraduate Research Travel Awards: COPLAC 2012 Annual Meeting, University of Virginia College at Wise, June 21-23, 2012.
31. Tidwell, Cindy; Truss, Ruth, "Undergraduate Research at the University of Montevallo," COPLAC Conference, University of Virginia College at Wise, June 19-20, 2012.
32. Ting Yu Su, Cynthia P. Tidwell, Prakash Bharara "Synthesis of a Novel Porphyrin," The University of Montevallo Undergraduate Research Day XIV on March 23, 2011.
33. Alston Whiten, Cynthia P. Tidwell, Prakash Bharara "Revisiting the Chemistry of Acetal Formation Using GCMS," The University of Montevallo Undergraduate Research Day XIV on March 23, 2011.
34. Cynthia P. Tidwell, "Porphyrin Synthesis at the University of Montevallo," invited presentation for the university community, March 8, 2010.
35. Greg Dye, "Examination of the Effectiveness of Environmentally Friendly Solvents in Porphyrin Metallation and Purification Processes," which has been accepted for presentation at the 24<sup>th</sup> National Conference on Undergraduate Research to be held at the University of Montana in Missoula, Montana April 15-17, 2010.
36. Greg Dye, Cynthia Tidwell "Examination of the Effectiveness of Environmentally Friendly Solvents in Metallation and Purification Processes of 5,10,15,20-Tetra(N-ethyl-3-carbazoyl)Porphyrin and 5,10,15,20-Tetra(3,4-dibenzyloxy)Porphyrin" 1<sup>st</sup> Annual COPLAC Southeast Undergraduate Research Conference, Asheville, North Carolina November 7, 2009
37. Kevin Jarrett, Cynthia Tidwell "Synthesis and Characterization of Tetra[3,4-dibenzyloxyphenyl] Porphyrin The University of Montevallo's Undergraduate Research Day XII on April 1, 2009
38. Greg W. Dye, Cynthia Tidwell "Examination of Reduction of Environmentally Harmful Chemicals in Porphyrin Metallation and Purification" The University of Montevallo's Undergraduate Research Day XII on April 1, 2009
39. Greg W. Dye, Cynthia Tidwell "Electrochemical Characterization of Metalloporphyrins" The University of Montevallo's Undergraduate Research Day XII on April 1, 2009
40. Leslie A. Alexander\*, Cynthia P. Tidwell, and Casey Bassett, "Cytotoxicity Studies Of 5,10,15,20 Tetra [N-Ethyl-3-Carbazoyl] Porphyrin and Its Metal Complexes for Possible Usefulness in Cancer Therapy" 20<sup>th</sup> National Conference on Undergraduate Research, Asheville, North Carolina, 2006.

41. Misty J. Bailey\*, Leslie A. Alexander\*, Katherine Lanier\*, and Cynthia P. Tidwell, "Improved Synthesis And Characterization Of 5,10,15,20-Tetra(9-Ethyl-3-Carbazoyl) Porphyrin" 20<sup>th</sup> National Conference on Undergraduate Research, Asheville, North Carolina, 2006.
42. Tiffany Rudeseal\*, Gretchen Rudeseal\*, and Cynthia P. Tidwell, "Synthesis and Characterization of Tetra [3-(3, 4-Dichlorophenoxy)] Porphyrin" 20<sup>th</sup> National Conference on Undergraduate Research, Asheville, North Carolina, 2006.
43. Leslie A. Alexander\*, Misty J. Bailey\*, Katherine L. Lanier\*, and Cynthia P. Tidwell, "Improved Synthesis and Characterization of 5,10,15,20-Tetra(N-ethyl-3-carbazoyl) Porphyrin" 11th Annual Western New York Ronald E. McNair Student Research Conference in July in Buffalo, New York, 2005.
44. Katherine L. Lanier\*, Dugald R. McMillan\*, Christine A. Simmer\*, Frank H. Rudeseal, Jr. \*, Lillian D. Fondren\*, LaTasha L. Folmar\*, Ken Belmore, Prakash Bharara, Cynthia P. Tidwell; "Synthesis and Characterization of 5,10,15,20-Tetra[3-(3-Trifluoromethyl)-Phenoxy] Porphyrin and Its Metal Complexes" 19<sup>th</sup> National Conference on Undergraduate Research, Lexington, Virginia, 2005.
45. L. Dalila Fondren\*, Martin G. Bakker, Cynthia P. Tidwell, "Laser Flash Photolysis Studies Of Zinc 5,10,15,20 Tetra (9-Ethyl-3-Carbazoyl) Porphyrin" 18<sup>th</sup> National Conference on Undergraduate Research, Indianapolis, Indiana 2004.
46. Christine A. Simmer\*, Frank H. Rudeseal, Jr.\*, Lillian D. Fondren\*, LaTasha L. Folmar\*, Ken Belmore, Prakash Bharara, Cynthia P. Tidwell, "Synthesis and Characterization of Metal Complexes of Tetra[3-(3-Trifluoromethyl)-Phenoxy] Porphyrin" 18<sup>th</sup> National Conference on Undergraduate Research, Indianapolis, Indiana 2004.
47. C. P. Tidwell, D. E. Nikles, M. G. Bakker, and K. Belmore, "New Optical Recording Mechanisms for Ultrahigh Density Optical Data Storage" Honors Week Graduate Student Seminar Series, University of Alabama, April 1998.
48. C. P. Tidwell, D. E. Nikles, M. G. Bakker, and K. Belmore, "New Optical Recording Mechanisms for Ultrahigh Density Optical Data Storage" Graduate Research Exposition at the University of Alabama in Tuscaloosa, March 1998.

### **SERVICE ACTIVITIES**

- Coordinator of the Undergraduate Research Program (2012-Present)
- American Chemical Society Science Coach (2011-2012, 2014-2015)
- Co-Coordinator of the Undergraduate Research Program (2011-2012)
- Human and Animal Subjects Research Committee (2011-Present)
- McNair Advisory Board (2011-Present)
- SACS Readiness Audit Team Committee Member (2008-2011)
- Admissions Committee Chair (January 2009-2014)
- Becoming 201 Committee Member (2009)
- Goldwater Scholarship Program Faculty Representative (2003-2015)
- Reviewer for *ACS Books*, *The Protein Journal*, *Solid State Sciences*, *The Journal of Biotech Research*
- Admissions, Retention, and Academic Advising Committee (2003-2009)
- Undergraduate Research and Creative Endeavors Advisory Council Member (2006-2010)
- Faculty Senate Representative from the College of Arts and Sciences (2004-2006)
- Served as a faculty mentor to four McNair Scholars (2005, 2007, 2014)
- Chemistry Club Advisor (2003-2015)
- Montevallo Civitan Club Member (2006-Present), Board Member (2009-Present), President (2013-2015)

### **PROFESSIONAL MEMBERSHIPS**

- American Chemical Society
- Alabama Academy of Sciences
- Higher Education Partnership (Lifetime membership)

**HONORS**

- Senior Elite Night Dedication (2017)
- Council of Public Liberal Arts Colleges Charles Dunn Award (2017)
- Civitan Distinguished Club President Award (2013-2014)
- Civitan Citizen of the Year (2013)
- Outstanding Commitment to Teaching Award (2012)
- Women's Volleyball Team Favorite Faculty Member (2010, 2011, 2014, 2015)
- UMCUR Distinguished Faculty Mentor (2009)
- Men's Soccer Team Favorite Faculty Member (2008, 2012)
- Women's Soccer Team Favorite Faculty Member (2008, 2014)
- Chi Omega Fraternity Tau Kappa Chapter Favorite Professor (2004, 2007, 2012, 2013)
- Who's Who Among America's Teachers Eighth and Ninth Edition 2004, 2005
- Omicron Chapter of Alpha Epsilon Lambda, 1999
- Outstanding Research Award given by the Graduate Student Association, 1998
- Sigma Xi Outstanding Research Award, 1998
- Graduate Council Research Fellowship, 1998-1999
- Presidential Graduate Fellowship Supplement, 1998-1999
- Graduate Council Thesis/Dissertation Fellowship, 1997-1998
- Presidential Graduate Fellowship Supplement, 1997-1998
- Graduate Student Research and Travel Support Fund, 1997-1998
- Alumni Graduate Fellowship, 1996-1997
- Chemistry Graduate Student Association Vice President 1996 (Member 1994-2001)
- Mathematics and Physics Senior Elite, 1993-1994
- National Science Foundation Summer Undergraduate Research Participant (NSF-REU), 1993, University of Alabama, Tuscaloosa, Alabama
- Chemistry Senior Elite, 1992-1993
- Highest Honors, 1989-1994
- Valedictorian Scholarship, 1989-1993
- Christopher Lane Boswell Scholarship (Chemistry), 1992-1993
- Ellison Gus Cochrane Scholarship (Mathematics), 1992-1993
- Dean's Scholarship, 1992-1994
- CRC Press Freshman Chemistry Award, 1989-1990
- President's List (Fall 1989, Spring 1991, Fall 1991, Spring 1992, Fall 1992, Fall 1993)
- Dean's List (1989-1994)(All Semesters)
- Phi Kappa Phi National Junior-Senior Honor Society (inducted under junior standing requirements)
- Kappa Mu Epsilon National Honor Society (President, 1992)
- Alpha Lambda Delta National Freshman Honor Society (Initiated 1989-90)
- College of Arts and Science Senior Advisory Board, 1992-1994 (Secretary 1992-1993)