

# Kevin A. Boudreaux

## Address

- **Work Address:**  
Angelo State University  
Department of Chemistry and Biochemistry  
2601 West Avenue N  
San Angelo, TX 76909  
Tel: (325) 486-6623  
e-mail: [Kevin.Boudreaux@angelo.edu](mailto:Kevin.Boudreaux@angelo.edu)
  - **Home Address:**  
2624 Sunset Drive  
San Angelo, TX 76904  
Tel: (325) 947-8409
- 

## Education

Years	Institution
Aug. 1989 - May 1995	<b>University of Texas at Austin</b> , Austin, TX 78712 Degree: M.A. in organic chemistry under the supervision of professor Jonathan L. Sessler. Research focused on the preparation of sapphyrin “expanded porphyrin” macrocycles with various substituents at the <i>meso</i> positions. G.P.A.: 3.75 / 4.0
Sep. 1985 - May 1989	<b>Louisiana State University</b> , Baton Rouge, LA 70803 Degree: B.S. in chemistry. Participated in undergraduate research in synthetic organic chemistry under Dr. Mark L. McLaughlin. G.P.A.: <i>cumulative</i> 3.731 / 4.0 <i>major</i> 3.684 / 4.0

---

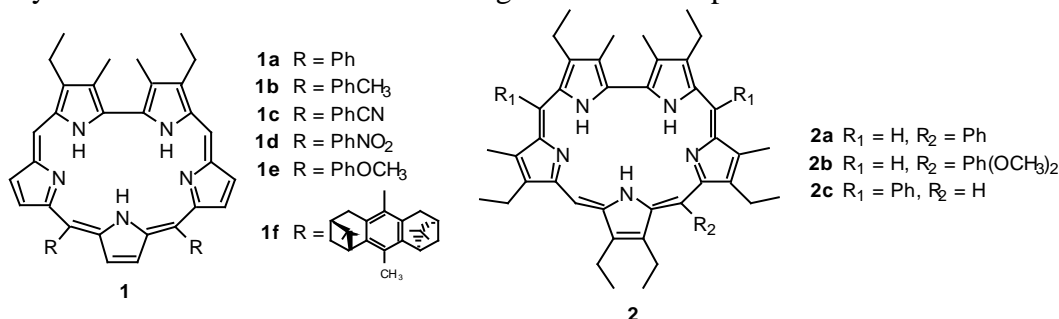
## Employment

Years	Institution
Aug 1995 - present	<b>Angelo State University</b> , San Angelo, TX 76909 Senior Instructor in the Department of Chemistry and Biochemistry, teaching General Chemistry, Organic Chemistry, and the Fundamentals of Organic Chemistry courses.
June 1993 - May 1995	<b>University of Texas at Austin</b> , Austin, TX 78712 Teaching Assistant (lab supervision) and Assistant Instructor (lectures) for sophomore organic chemistry labs for chemistry majors and life-science majors.

Years	Institution
June 1989 - Aug. 1989	<b>Shell Development Company</b> , Bellaire Research Center, P.O. Box 481, Houston, TX 77001 Summer scientist in Analytical Chemistry department. Worked on a project involving the separations of complex mixtures of low-molecular weight hydrocarbons using gas chromatography.
Sep. 1985 - May 1989	<b>Louisiana State University</b> , Baton Rouge, LA 70803 Campus job working in the Dept. of Biochemistry under Dr. Jesse M. Jaynes.

### M.A. Thesis: Synthesis and Characterization of *meso*-Aryl-Substituted Sapphyrins

This project involved the exploration of the synthesis of various derivatives of the “expanded porphyrin” sapphyrin, first reported by R. B. Woodward in 1963. The Sessler group has long been interested in preparing dimeric porphyrin-containing chromophores which can be used to mimic certain properties of those in the photosynthetic reaction centers of photosynthetic bacteria; these dimeric porphyrin-based systems may be extended into a second generation by incorporating the sapphyrin macrocycle, which absorbs light at longer wavelengths than does porphyrin. This should allow for the selective excitation of one chromophore in a system, allowing the sapphyrin, in essence, to act as an antenna. To this end, we have developed synthetic procedures that have allowed us to produce sapphyrins bearing phenyl rings in the *meso* positions (e.g., **1**, **2**). In addition, a chiral sapphyrin derivative (**1f**) has been prepared, which may allow for the enantioselective recognition and transport of chiral anions.



**Figure 1.** The sapphyrin molecule and some of its derivatives.

### Publications:

- “Synthesis and Characterization of Di-Aryl Sapphyrins Prepared under Lindsey-type Conditions” J. L. Sessler, J. Lisowski, K. A. Boudreaux, V. Lynch, J. Barry, T. J. Kodadek *J. Org. Chem.*, **1995**, 60, 5975.
- Laboratory Manual for General Chemistry 1411 (co-authored with David Carter, Nick Flynn, and Joe Velasquez, III) (2008, 2009, 2010, 2011)
- Qualitative Analysis: A Laboratory Manual for General Chemistry 1412 (co-authored with George Shankle, Delbert Tarter, and David Harlan) (2010)
- Organic Chemistry Laboratory Manual for Chemistry 3151/3152 (2006)
- Fundamentals of Organic Chemistry Laboratory Manual (CHEM 2153) (2005)

- Custom Edition of Experimental Chemistry (James W. Hall, Kevin A. Boudreaux, David Carter, Edith M. Osborne, Gregory Smith, Ralph Zehnder; Boston: Cengage Learning, 2015)
- 

### **Technical Skills:**

- Laboratory skills: organic synthesis, column/TLC chromatography, water-sensitive reactions, maintenance of dry solvent stills
  - Instrumental analysis: NMR, GC, FT-IR, UV/vis spectroscopy
  - Chemistry demonstrations for elementary, high school, and college students
  - Computer Experience: Windows- and Apple-based computer systems, PowerPoint presentations, maintenance of LCD projectors, web page management
- 

### **Grants / Honors / Honorary and Professional Societies:**

- Participant in the SPURRS (Science Partnership for Undergraduate Recruitment, Retention, and Success) project headed by Dr. Connie Russell, 2010-2014
  - Participant in the CHEM 1411 Course Redesign project headed by Dr. David Carter (Texas Course Redesign Project Phase IV), 2008-2010
  - Faculty sponsor for the Student Affiliates of the American Chemical Society at ASU, 2007-present
  - Faculty Development Grant (ASU, 2005) for writing a Laboratory Manual for Fundamentals of Organic Chemistry
  - Participant in the Department of Education's Preparing Teachers to Teach with Technology (PT3) Grant in 1999-2000 and 2001-2002, which was used to support the conversion of my classroom notes to PowerPoint format and to start construction of a faculty web page
  - Faculty Development Grant (ASU, 1997) for writing a Laboratory Manual for Organic Chemistry
  - Henze Teaching Excellence Award (UT, 1995)
  - Exxon Education Foundation Fellowship (UT, 1990)
  - Member of the ACS since 1990
  - ACS Outstanding Senior in Chemistry (Baton Rouge Section, 1989)
  - Phi Beta Kappa (LSU, 1989)
  - Phi Lambda Upsilon Award for Excellence in Undergraduate Research (LSU, 1989)
  - ACS Undergraduate Award in Analytical Chemistry (LSU, 1988)
  - Member of the American Association for the Advancement of Science since 1988
  - Phi Kappa Phi (LSU, 1988)
  - LSU Alumni Federation Scholarship (LSU, 1985)
  - LSU Honor Scholarship (LSU, 1985)
  - National Merit Scholarship (LSU, 1985)
- 

### **References:**

Years	Institution	
Dr. Jonathan L. Sessler	University of Texas at Austin, Austin, TX 78712	(512) 471-5009
Dr. John C. Gilbert	University of Texas at Austin, Austin, TX 78712	(512) 471-5658
Dr. Eric Anslyn	University of Texas at Austin, Austin, TX 78712	(512) 471-0068

---

### Teaching Experience:

Since I started at Angelo State University in 1995, I have taught classes in General Chemistry (CHEM 1411/1412) every year, as well as the associated laboratory courses. I have also taught the one-semester Fundamentals of Organic Chemistry (CHEM 2353) and its associated lab every Spring and occasionally in the summer, the one-semester Fundamentals of Biochemistry (CHEM 3331) lecture class, and the two-semester Organic Chemistry class (CHEM 3351/3352) on a few occasions. I also usually teach a section of the Organic Chemistry lab (CHEM 3151) in the Fall semester.

I have done a lot of work in trying to incorporate technology into my classes. I participated in the Department of Educations "Preparing Teachers to Teach with Technology" (PT3) grant for two years, during which I began to use PowerPoint presentations in my lecture classes. I also learned how to do basic HTML coding, which allowed me to construct a [faculty web page](#)<sup>1</sup> which I use to provide my class with printable handouts of my presentations. My web page also includes information about some of the elements on the periodic table, brief descriptions of interesting organic molecules and their three-dimensional structures, and video clips that I have made of various chemistry demonstrations. This is an ongoing project, which I add to on a periodic basis.

I have been awarded two Faculty Development Grants for writing lab manuals for the Chemistry Department. The first was to write a manual for the two-semester Organic Chemistry Laboratory (CHEM 3151/3152) in 1997, and the other was for a manual for the one-semester Fundamentals of Organic Chemistry Laboratory (CHEM 2153) in 2005.

I was a participant in Dr. David Carter's CHEM 1411 Course Redesign project (Texas Course Redesign Project Phase IV) from 2008 to 2010. As a part of this project, I rewrote and reformatted our existing CHEM 1411 Laboratory Manual, incorporating new experiments and redesigning some of the more traditional experiments to reflect an improved method for approaching the freshman chemistry lab sequence. I also used the experience I gained from this project in redesigning the CHEM 1412 Laboratory Manual as well.

Beginning in 2010, I have been a participant in the SPURRS (Science Partnership for Undergraduate Recruitment, Retention, and Success) project headed by Dr. Connie Russell. This program seeks to improve retention for students in STEM (science, technology, engineering, and math) majors by exposing them to a typical college curriculum in the weeks before classes begin, to help the students understand what it takes to succeed in college. As a part of this project, I gave lectures and labs during this "boot camp" in the week before the beginning of the 2010, 2011, 2012, 2013, and 2014 Fall semesters, and have been keeping up with the students' progress through the fall semesters in my CHEM 1411 course.

I have been involved in the activities of the local section of the Student Affiliates of the American Chemical Society section for a number of years. Since 2007, I have been faculty sponsor for the group, and in that time we have made several visits to local schools at which we have performed simple chemistry demonstrations in an effort to get kids excited about science. I

also set up and perform some of the demonstrations that are done as a part of the Magic Show portion of the Science Days program.

I had a lot of experience in teaching at the University of Texas at Austin while I was in graduate school. From 1993 to 1995 I was the lecturer (Assistant Instructor) for the sophomore-level Organic Chemistry laboratory sequence, where I gained some experience in working with microscale chemistry glassware, an experience that proved extremely important when I started revising the organic labs at ASU to use microscale techniques.

---

<sup>1</sup> [www.angelo.edu/faculty/kboudrea/index.htm](http://www.angelo.edu/faculty/kboudrea/index.htm)