

## EXPERIENCE

Nineteen years of involvement with undergraduate general chemistry curriculum and education

## EDUCATION

**Master of Science in Chemistry**  
**B.S., Chemistry, *Magna cum laude***  
**Biochemistry Major**

**Arizona State University**  
**University of Georgia**  
**Berry College**

**August 2003 - August 2007**  
**August 2001 - May 2003**  
**August 1999 - May 2001**

## TEACHING AND RESEARCH EXPERIENCE

### **Arizona State University, Tempe, Arizona, 2008 – Present**

#### **Instructor, Fall 2015 – Present**

**Specific duties vary by semester, but include:**

- **General Chemistry Recitation and/or Lab Instruction Duties CHM 101, 113, 114, 114 Online, 116**
  - Instructing, grading, Gradebook Management, Recitation Course Leader, Leading CHM 113 discussion sessions, mentoring junior recitation instructors and TAs, performing Lecture Demonstrations as needed
- **Assistant to the Laboratory Coordinator**
  - Leading/attending meetings, covering current and upcoming laboratories, meeting with stockroom personnel about lab preparation, mentoring students and TAs, laboratory student manual handouts, TA instructor guides/materials and lab procedure development
- **Senior Instructor Duties**
  - Mentoring junior Instructors, organizing Instructor meetings, organizing Instructor scheduling assignments, providing feedback with yearly observations, organizing consistent feedback, sop, and course development suggestions upon collaboration with other senior instructors.
- **Course Instruction**
  - **CHM 116**; Spring 2010, Summer 2010, Summer 2011, Spring 2013, Summer 2016. **CHM 113**; Fall 2013, Fall 2016
- **Recitation Course Redesigns, Materials Development**
  - MasteringChemistry Authoring & Redesign: CHM 113/114/116 MasteringChemistry Recitation Editing/Implementation, Fall 2012; CHM 113/114/116 MC Recitation Authoring, and CHM 116 Recitation Implementation, Summer 2012
  - Initial Redesign: CHM 113/116 Recitation Course Development: Collaborating with Dr. Ron Briggs, Principle Lecturer Pamela Marks, and Dr. Janet Bond-Robinson by assisting development, editing, and finalizing guided inquiry recitation activities, Fall 2008

#### **Faculty Associate, Fall 2007-Spring 2008**

- Instruction of CHM 101 Recitation Pilot: Assisted Pam Marks in developing and implementing recitation activities
- CHM 113 Laboratory Instructor: Lecturing, grading, and supervising the laboratory component for undergraduate first semester general chemistry students
- Assistant to Lab Coordinator for CHM 113 and 116: Meeting weekly with General Chemistry Lab Coordinator, liaison and mentor to TAs about lab, grading, safety compliance, etc.

#### **Teaching Assistant, Fall 2003 - Summer 2007**

- Lecturing, grading, and supervising undergraduate first and second semester general chemistry for non-majors laboratory: CHM 113 (three semesters), CHM 116 (six semesters)
- One semester: developing, executing, and supervising a cyclic voltammetry laboratory experiment for undergraduate instrumental analysis laboratory, CHM 328

#### **Research Assistant, June 2003 - August 2007**

- Cyclic Voltammetric/SPR analysis and instrument development under the supervision of Mark A. Hayes

### **University of Georgia, Athens, Georgia, Summer 2001-June2003**

#### **Research Assistant, January 2002 - June 2003**

- Infrared analysis and techniques under the supervision of James A. de Haseth

#### **Laboratory Teaching Assistant, Summer 2001 & Fall 2002**

- Lecturing, grading, and supervision of undergraduate first-semester general chemistry for majors laboratory

## Berry College, Berry, Georgia, Fall 1999-Spring 2001

### Team Leader/Laboratory Assistant, Fall 2000 & Spring 2001

- Sharing duties of providing assistance to students with attending professor during execution of first and second semester undergraduate chemistry labs for majors as well as supervision and guidance of peers for the organization and preparation of laboratory materials

### Laboratory Assistant, Fall 1999 & Spring 2000

- Organization and preparation of laboratory materials, sharing duties of providing assistance to students with attending professor during execution of first-semester undergraduate chemistry labs for majors

## PROFESSIONAL DEVELOPMENT

Wiley Faculty Network Workshop: *Visualizing the Future of Chemistry Education*. Hosted by California State University, November, 2007

## HONORS AND AFFILIATIONS

**Arizona State University, Tempe, AZ:** Promoted to unofficial position of Senior Instructor, Fall 2015; CLAS Teaching Award Nominee, Spring 2010; Learner-Centered Education Team, Fall 2007-present; Recipient of a 2007 Distinguished Teaching Assistant Award; Graduate Student Council VP Public Relations, 2005; Graduate Student Council Vice President, 2004

**University of Georgia, Athens, GA:** American Chemical Society, Society for Applied Spectroscopy, Presidential Scholar, Dean's List, Recipient of the 2003 L. B. Rogers Undergraduate Research Award, Magna Cum Laude

**Berry College, Rome, GA:** American Chemical Society, Lambda Sigma Sophomore Honor Society, Dean's List;

## PRESENTATIONS AND PUBLICATIONS

Briggs R.D.; P.A. Marks; S.I. Hauck, "Evolution of the Chemistry Collaborative Learning Center (CCLC) at Arizona State University – Lessons Learned After 6 Years and 35,000 Students" Presented at the 2014 BCCE at Grand Valley State University in August 2014.

Marks, P.A.; H. McIlwraith, and S.I. Seerley. "Design and Implementation of ASU's Chemistry Collaborative Learning Center (CCLC)." Invited presentation to General Chemistry Faculty at the University of Arizona in November 2009.

Seerley, S.I.; K. Booksh, G. Ghirlanda, M. A. Hayes. "Development of a Dual Channel Electrochemical Surface Plasmon Resonance Flow Cell Towards Biosensor Applications." Presented at the Annual Pittsburgh Conference for Analytical Chemistry and Spectroscopy in March 2006.

Seerley, S.I.; K. Booksh, G. Ghirlanda, M. A. Hayes. "Detection and Microanalysis of Heme by Cyclic Voltammetry." Poster Presented at the Directors of Industrial Research Analytical Group (DIR-AG) Conference organized by Arizona Applied NanoSensors (AzANS) in February 2005.

Seerley, S.I.; J.L. Jarman, and J.A. de Haseth. "Semi-Automatic Sample Deposition for micro ATR/FT-IR Spectrometry." Presented at the Annual Pittsburgh Conference for Analytical Chemistry and Spectroscopy in March 2003.

Jarman, J.L.; S.I. Seerley, R.A. Todebush, and J.A. de Haseth. "Semi-Automatic Sample Deposition System for Single Bounce ATR/FT-IR Spectrometry." *Applied Spectroscopy*, 57 (9): 1078-1086 September 2003.

Jarman, J.L.; S.I. Seerley, and J.A. de Haseth. "Precision and Reproducibility of Semi-Automated Sample Deposition for FT-IR/ATR Analysis" Presented at the Annual Federation of Analytical Chemistry & Spectroscopy Societies Meeting in October 2002.

Jarman, J.L.; S.I. Seerley, and J.A. de Haseth. "Semi-Automatic Sample Deposition and its Application to ATR/FT-IR Spectrometric Analyses." Presented at the Annual Pittsburgh Conference for Analytical Chemistry and Spectroscopy in March 2002.

## REFERENCES

- Dr. Gary Cabirac: Lecturer, Gen CHM Coordinator; [gcabirac@asu.edu](mailto:gcabirac@asu.edu); (480)965-3129
- Dr. Ron Briggs: Senior Lecturer, Gen CHM Lab Coordinator; [RonBriggs@asu.edu](mailto:RonBriggs@asu.edu); (480)965-1905