

# Timothy Lamb

• E-Mail: [tdlamb@asu.edu](mailto:tdlamb@asu.edu)

## Education

- M.S. Chemistry, Arizona State University, Tempe, Arizona (December 2013)  
B.S. Chemistry (Magna Cum Laude), Fairleigh Dickinson University, Madison, NJ (2008)

## Teaching Experience

- CHM113 – General Chemistry I (Teaching Assistant, ASU Tempe) Aug 2008-Dec 2009
  - Taught 2 – 4 laboratory sections per semester with emphasis on guided inquiry learning to promote students' critical thinking skills
  - Attended course lectures 2X/week
- CHM 117/118 General Chemistry For Majors I & II (TA, ASU Tempe) Jan 2010-May 2012  
(Labs became separate 1 credit courses, CHM 111/112, in Fall 2010)
  - Taught 2 laboratory sections per semester with 50 minute recitation period prior to laboratory work
  - Prepared weekly quizzes and/or in-class activities to check students' understanding of class material
  - Assisted in the development of laboratory report forms and grading rubrics for select experiments
- CHM 151/151LL General Chemistry (Adjunct Lecturer and Lab Instructor, Mesa Community College) May 2012-July 2012, May 2015-July 2015
  - Taught 1 lecture and 2 lab courses for first semester general chemistry, equivalent to CHM 113 at ASU May 2016-July 2016
  - Prepared tests, quizzes, and short assignments
- Instructional Professional (Chemistry) ASU Polytechnic Campus August 2012-August 2013
  - Taught laboratory sections for both CHM 113 and CHM 116 (General Chemistry)
  - Prepared solutions and set up and broke down lab activities.
  - Revised several of the CHM 116 labs in order to utilize smaller quantities of chemicals in order to reduce cost and reduce the waste stream
  - Revised laboratory report templates for CHM 116 and developed lab report grading keys
  - Led collaborative recitation sessions prior to lab experiments to reinforce student understanding of chemistry topics
- Instructor – ASU School of Molecular Sciences August 2013-Present
  - Taught general chemistry labs for CHM 111 and recitations for CHM 114 (Fall 2013)

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- Taught general chemistry recitations for CHM 116 and labs for CHM 114 (Spring 2014)
- Taught CHM 116 recitations (Summer 2016)
- Taught and managed CHM 111 labs, also taught CHM 113 and CHM 117 recitations (Fall 2014)
- Taught and managed CHM 111/112 labs and CHM 117/118 Recitations, assisted professor with lecture duties, exam grading and TA coordination (Spring 2015-Present)
- Taught CHM 114 Labs and recitations (Summer 2018)

## Professional Development

- EDU 250: Teaching and Learning in the Community College Spring 2016
- Core Virtues of Teaching Excellence Workshop April 8, 2011
- Teaching Assistant Development Course Fall 2008

## Awards and Honors

- Distinguished Instructor Award Spring 2017
- Distinguished Teaching Assistant Award Spring 2012
- Certificate in Recognition for Excellence as a Teaching Assistant Spring 2009
- Dr. David Hart Award for Excellence in Chemistry, FDU 2008
- Scholar Athlete Award, FDU Athletic Department 2007 & 2008
- Academic Honors List Fall 2006 – Spring 2008

## Research Experience and Skills

- Synthesis and characterization of small, water-soluble metal nanoparticles for energy applications
- Atomic force microscopy
- Transmission electron microscopy – Philips CM-12
- Powder X-ray diffraction
- Ultraviolet-visible spectroscopy
- Electrochemical techniques
- Infrared Spectroscopy
- Gas Chromatography

## Computer Experience

- Mac OS X
- Windows (98, 2000, XP, Vista, 7,10)

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- Microsoft Office (Word, Excel, Powerpoint)
- Endnote
- Graphical Analysis
- ImageJ
- Blackboard
- Canvas
- Respondus 4.0
- Mastering Chemistry
- ExamView
- Turning Point Cloud
- ALEKS Online Homework System
- Connect Online Homework System

## Affiliations and Memberships

- American Chemical Society

May 2008-Present

## Publications

- Lamb, T. and Buttry, D. A.: Water-Soluble Palladium Nanoparticles – Synthesis, Characterization and Electrochemical Hydrogen Insertion in Alkaline Solution (Masters Thesis)