

Dave Jenkins

Email:dave_jenkins5@yahoo.com

Objective: To perform research in the field of chemistry education utilizing gaming software.

Education

The University of Texas at Tyler, Major- Chemistry (BS)	January 2006-May 2010
The University of Maryland, College Park, Major- Chemistry (MS)	August 2010- December 2013
The University of North Texas at Denton, Major-Chemistry (PHD)	Graduation December 2018

Research Experience

- 2014- Present Ph.D. thesis research with Professor William Acree, University of North Texas at Denton
Unified Learning Model Applied to Games: Role Playing Games used to Explore Chemistry
- 2011 – 2013 Master's thesis research with Professor Andrei Vedernikov, University of Maryland, College Park
Oxidative Functionalization of Pd^{II}-C Bonds Using Environmentally Benign Oxidants: Exploring
the Potential of the Pd^{II} Hydrocarbyl – di-(2-pyridyl)-ketone System
- Summer 2009 Synthesis of intermediates needed to perform a Type-2 Intramolecular Diels-Alder Reaction.
Preparation of the natural product methyl welwistatin. Kenneth Shea, University of California, Irvine
- 2008 - 2010 Development of functional polymer coatings capable of sequestering chemical, biological,
and radioactive warfare agents (CBWAs). H. Neil Gray, University of Texas at Tyler

Work Experience

- 2015-Present **Adjunct Professor of Chemistry**
University of Dallas
Spring 2015- 3445 Environmental
Chemistry
Fall 2015 – 1402 Forensic Chemistry
Spring 2016- Forensic Chemistry
Spring 2016- 3445 Environmental
Chemistry
Fall 2016 –Forensic Chemistry
Spring 2017- Forensic Chemistry
- 2014-Present **Adjunct Professor**
Tarrant College Northeast Campus
Summer II- 2014 - General Chemistry II Lab and Lecture
Fall 2014- – General Chemistry II Lab and Lecture
Spring 2015- General Chemistry II Lab and Lecture
Summer II 2015- General Chemistry Lab and Lecture
Fall 2015- General Chemistry I Lab and Lecture
Spring 2016- General Chemistry I Lab and Lecture
Summer I 2016- Organic Chemistry I Lab and Lecture
Fall 2016 General Chemistry I Lab and Lecture
Spring 2016 General Chemistry I Lab and Lecture
Summer I 2016 Organic Chemistry I Lab and Lecture
Spring 2017 General Chemistry I Lab and Lecture
Summer 2017 Organic Chemistry I Lab and Lecture
Summer 2017 General Chemistry II Lab and Lecture
- 2014-Present **Associate Professor**
Preston Ridge Collin College
Summer I- 2014 General Chemistry I Lab and
Lecture
Summer II- 2014 General Chemistry II Lab and
Lecture
Fall 2014- General Chemistry I Lab
Spring 2015- General Chemistry I Lab and
Lecture

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Summer I- 2015 General Chemistry I Lab and Lecture

Summer II –2015 Organic Chemistry II Lab and Lecture

Fall 2015- General Chemistry I Lab and Lecture

Spring 2016- General Chemistry I Lab and Lecture

Summer I 2016 General Chemistry I Lab and Lecture

Summer II 2016 General Chemistry II Lab and Lecture

Fall 2016 Introductory Chemistry Lab and Lecture

Spring 2016 General Chemistry I Lab and Lecture

Summer I 2016 General Chemistry I Lab and Lecture

Summer II 2016 General Chemistry II Lab and Lecture

Summer III 2017 Organic Chemistry I Lab and Lecture

Summer III 2017 General Chemistry II Lab and Lecture

2014-Present **Adjunct Professor**
Eastfield College

Fall 2014 -General Chemistry I lab and lecture
Spring 2015 –General Chemistry I Lab and Lecture

Summer I 2015 - General Chemistry I Lab and Lecture

Summer II 2015- General Chemistry I Lab and Lecture

Fall 2016 Introduction to Chemistry Lab and Lecture

Spring 2016 Introductory Chemistry Lab and Lecture

Spring 2017 Introductory Chemistry Lab and Lecture

2013 **United States Patent and Trademark Office - Patent Experience Externship Program**

-Modified CPC(Cooperative Patent Classification) system
-Examined RCEs(Material Science, Chemistry, and Biotechnology)
-Reviewed Board Decisions

2012-2013 **Research Assistant**
University of Maryland, College Park

Synthesis of new C-F bonds accessed through isolated Palladium(IV) intermediates

2011 - 2012 **Teaching assistant** for Inorganic Chemistry (University of Maryland, College Park)

-Organized and taught undergraduate inorganic chemistry laboratory experiments
-Organized and taught problem sessions for undergraduate chemistry classes
-Occasionally volunteered to teach undergraduate organic chemistry classes

2010 **Teaching assistant** for Organic Chemistry II (University of Texas at Tyler)

-Organized and taught undergraduate organic chemistry laboratory experiments

2010 **Supplemental Instructor** for Organic Chemistry II (University of Texas at Tyler)

-Organized and taught problem sessions for undergraduate chemistry classes

2009 **Teaching assistant** for Introduction Chemistry(University of Texas at Tyler)

-Organized and taught undergraduate general chemistry laboratory experiments

2008 Tutoring mathematics, grades one through twelve (Sylvan Learning Center, Tyler TX)

-Developed math problems for K-12

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2007 - 2008 Tutored math at John Tyler High School and Boulter Middle School (TISD)
- Taught math problem sessions for sophomore and senior high school students

Online Course Systems

Blackboard
Canvas
Ecollege

Online Homework and Quiz Systems

Sapling Learning
Cengage OWL Learning
Mastering Chemistry
MyLab Mastering Chemistry

Computer Experience

Microsoft Word
Microsoft PowerPoint
Microsoft Excel
SPSS (educational statistical software) software
Unity3d Software

Certifications

ACS Certified Chemist
ASCP Certified Clinical Chemistry MT C^{ASCP}

Presentations

Dave Jenkins*, John Brailsford, Siu-Ling Sit, Kenneth Shea. (April **2010**). The Total Synthesis of N-Methylw elwitindolinone C Isothiocyanate. 37th NOBCCChE National Meeting, Atlanta, GA

Dave Jenkins*, John Brailsford, Siu-Ling Sit, Kenneth Shea. (November **2009**). The Total Synthesis of N-Methylw elwitindolinone C Isothiocyanate. The Annual Biomedical Research Conference for Minority Students. Phoenix, AZ

Dave Jenkins*, John Brailsford, Siu-Ling Sit, Kenneth Shea. (August **2009**). The Total Synthesis of N-Methylw elwitindolinone C Isothiocyanate. . The Chem-SURF Research Symposium, Irvine, CA

Dave Jenkins*, H. Neil Gray. (June **2009**). Organic Reactions at Polymer Coating Interfaces: Decontaminating Coatings for Chemical, Biological, and Radioactive Warfare Agents. 41st National Organic Symposium, Boulder, CO **Dave Jenkins***, H. Neil Gray. (April **2009**). Organic Reactions at Polymer Coating Interfaces: Decontaminating Coatings for Chemical, Biological, and Radioactive Warfare Agents. 36th NOBCCChE National Meeting, St. Louis, MO

Dave Jenkins*, H. Neil Gray. (March **2009**). Organic Reactions at Polymer Coating Interfaces: Decontaminating Coatings for Chemical, Biological, and Radioactive Warfare Agents. 237th ACS National Meeting, Salt Lake City, UT

Dave Jenkins*, H. Neil Gray. (October **2008**). Organic Reactions at Polymer Coating Interfaces: Decontaminating Coatings for Chemical, Biological, and Radioactive Warfare Agents. Louis Stokes Alliance for Minority Participation, El Paso, TX

Publications

Jenkins, D.A.; Foo, S.; Vedernikov, A.N. " Oxidative Functionalization of Pd^{II}-C Bonds Using Environmentally Benign Oxidants: Exploring the Potential Formation of Pd^{IV} intermediates and C(sp³)-X (X = F, Br, Cl, I, OH) bond elimination" *Manuscript in Writing*.

Community Involvement

Adopt a highway - 2008 (Tyler, TX)
Volunteered at boys and girls club – 2007(Tyler, TX)
Community service at boys and girls club - 2007(Tyler, TX)
Burkfield park fair for the children (8-16) – 2007(Tyler, TX)

Handed out school supplies to children drive – 2007(Tyler, TX)
Boys and girls club – March, September 2006 (Tyler, TX)
Achievement Center of Texas- 2004 (Garland, TX)

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Scholarships and Fellowships

Louis Stokes Alliance for Minority Participation Bridge to Doctorate (2010 –2012 University of Maryland, College Park)

Ben and Maytee Fisch Foundation Scholarship and the John Kermit Owen Endowed Chemistry Scholarship(2010)

NSF, Research Experience for Undergraduates, Chem-SURF program(2009 University of California, Irvine)

Louis Stokes Alliance for Minority Participation (2008-2010 University of Texas at Tyler)

Welch Scholarship (2008 University of Texas at Tyler)