

*Curriculum Vitae*  
**Santiago Toledo, Ph.D.**  
stoledoc@stedwards.edu

**EDUCATION**

<b>Ph.D. Bioinorganic Chemistry</b> University of Washington, Seattle, WA	<b>June 2009</b>
<b>Bachelors of Science, Chemistry</b> Texas Lutheran University, Seguin, TX Magna cum laude	<b>May 2004</b>

**ACADEMIC APPOINTMENTS**

<b>Associate Professor of Chemistry</b> (TENURED) Department of Chemistry, St. Edward's University (Austin, TX)	<b>Aug. 2019-Present</b>
<b>Chair, Department of Chemistry</b> Department of Chemistry, St. Edward's University (Austin, TX)	<b>June 2018-Present</b>
<b>Assistant Professor of Chemistry</b> Department of Chemistry, St. Edward's University (Austin, TX)	<b>Aug. 2015-Present</b>
<b>Associate Professor of Chemistry</b> (TENURED) Department of Chemistry, Texas Lutheran University	<b>Feb. 2015-May 2015</b>
<b>Assistant Professor of Chemistry</b> Department of Chemistry, Texas Lutheran University	<b>Aug. 2009-Feb 2015</b>

**PUBLICATIONS CHEMISTRY** (†Denotes undergraduate student co-authors; \*denotes corresponding author)

Ramón Arrué, R.; Arancibia, R.; **Toledo, S.\***; Novoa, N.\* *Schiff bases and their transition metal complexes: promising biomedical and bioinorganic applications*. Applied Organometallic Chemistry, **2020**, Manuscript in preparation.

Blade, G.A. †; Parveen, R.; Jaimes, J.L. †; Ilustre, W. †; Saldaña, D. †; Ivan, D.A. †; Lynch, V.M. Cundari, T.R.; **Toledo, S.\*** *A family of structural and functional models for the active site of a unique dioxygenase: Acireductone dioxygenase (ARD)*. Journal of Inorganic Biochemistry, **2020**. <https://doi.org/10.1016/j.jinorgbio.2020.111253>

Healy, E. F.; Flores, R.†; Lynch, V.M.; **Toledo, S.\*** *Protein dynamics of [CuZn]superoxide dismutase (SOD1): How protein motions at the global and local levels impact the reactivity of SOD1*. Journal of Inorganic Biochemistry, **2020**, 210, 111161.  
<https://doi.org/10.1016/j.jinorgbio.2020.111161>

Healy, E.; Roth-Rodriguez, A. †; **Toledo, S.** *A model for gain of function in superoxide dismutase*. Biochemistry and Biophysics Reports. **2020**, 21, 100728.  
<https://doi.org/10.1016/j.bbrep.2020.100728>

Yan Poon, P.C., Dedushko, M.A., Sun, X., Yang, G., **Toledo, S.**, Hayes, E.C., Johansen, A., Piquette, M.C., Rees, J.A., Stoll, S. and Rybak-Akimova, E. *How Metal Ion Lewis Acidity and Steric Properties Influence the Barrier to Dioxygen Binding, Peroxo O–O Bond Cleavage, and Reactivity*. Journal of the American Chemical Society, **2019**, 141, 15046.  
<https://doi.org/10.1021/jacs.9b04729>

Ivan, D.A. †; Gremillion, A.J. †; Sanchez, A. †; Sanchez, S. †; Lynch, V.A.; **Toledo, S.A.\***  
*The first structural model for the resting state of the active site of nickel acireductone dioxygenase (Ni-ARD)*. Inorganic Chemistry Communications, **2018**, 89, 37-40.  
<https://doi.org/10.1016/j.inoche.2018.01.014>

Brines, L.M; Coggins, M.K.; Yan Poon, P.C.; **Toledo, S.**; Kaminsky, W.; Kirk, M.; Kovacs, J.A. *Water-Soluble Fe(II)-H<sub>2</sub>O Complex with a Weak O–H Bond Transfers a Hydrogen Atom via an Observable Monomeric Fe(III)-OH*. Journal of the American Chemical Society, **2015**, 137, 2253–2264.  
<https://doi.org/10.1021/ja5068405>

Coggins, M. K.; **Toledo, S.**; Kovacs, J. A. *Isolation and Characterization of a Dihydroxo-Bridged Iron(III,III)(μ-OH)<sub>2</sub> Diamond Core Derived from Dioxygen*. Inorganic Chemistry, **2013**, 52, 13325-13331.  
<https://doi.org/10.1021/ic4010906>

Coggins, M. K.; **Toledo S.**; Shaffer, E.; Kaminsky W.; Shearer.; Kovacs, J.A.  
*Characterization and Dioxygen Reactivity of a New Series of Coordinateively Unsaturated Thiolate-Ligated Manganese(II) Complexes*. Inorganic Chemistry, **2012**, 51, 6633–6644.  
<https://doi.org/10.1021/ic300192q>

**Toledo, S.** *Synthesis and Reactivity of an Expanded Family of Superoxide Reductase (SOR) Model Complexes Using N-Heterocyclic, Thiolate-Containing Ligands: Towards a Better Understanding of Structural-Functional Relationships*. Ph.D. dissertation, University of Washington, Seattle, WA. **2009**.

## **PUBLICATIONS TEACHING AND LEARNING**

**Toledo, S.A.\***; Dubas, J.M. *A Learner-Centered Grading Method Focuses on Reaching Proficiency with Course Learning Outcomes*. Journal of Chemical Education, **2017**, 94, 1043-1050.  
<https://doi.org/10.1021/acs.jchemed.6b00651>

**Toledo, S.A.\***; Dubas, J.M. *Encouraging Higher-Order Thinking in General Chemistry by Scaffolding Student Learning Using Marzano's Taxonomy*. Journal of Chemical Education, **2016**, 93, 64-69.  
<https://doi.org/10.1021/acs.jchemed.5b00184>

Dubas, J.M; **Toledo, S.A.** *Taking Higher Order Thinking Seriously: Using Marzano's Taxonomy in the Economics Classroom.* International Review of Economics Education, **2016**, 21, 12-20.

<https://doi.org/10.1016/j.iree.2015.10.005>

**Toledo, S.\*;** Dubas, J. *Active Reading Documents (ARDs): A Tool to Facilitate Meaningful Learning Through Reading.* College Teaching, **2015**, 63, 27-33.

<https://doi.org/10.1080/87567555.2014.972319>

## **GRANTS**

**Funded (external grant):** Principal investigator of a National Institute of Health (NIH)-National Institute of General Medical Sciences (NIGMS) SCORE-2 grant. *An expanded family of model complexes for Nickel Acireductone Dioxygenase (Ni-ARD): Towards elucidating the role of metal identity on reactivity and mechanism.*

May 2019-April 2022. **Amount:** \$330,602.00.

### **Funded (Internal grants):**

Principal investigator of an Institute for Interdisciplinary Science (I4) NSF-Internal Research Opportunity Award titled "Bridging the gap of the lost paradigm between protein gain of structure and mechanistic loss of function: An investigation on culprits for Amyotrophic Lateral Sclerosis (ALS)."

May 2019-August 2021 **Amount:** \$15,000.00.

### **Not funded:**

**October 2019**

Principal investigator of a National Science Foundation (NSF) RUI grant (\$508,143). *Expanding our understanding of the mechanistic and metal dependent reactivity of a unique dioxygenase, Acireductone Dioxygenase (ARD).*

**Spring 2018**

Principal investigator of a Welch-Foundation faculty research grant program (\$195,000). *A family of model complexes for Nickel Acireductone Dioxygenase (Ni-ARD): In search of the role of metal identity on reactivity, mechanism and disease.*

**Fall 2016**

Principal Investigator and co-author of an NSF Improving Undergraduate STEM Education exploratory grant (\$300,000). *Holistic Course Design for Enhanced Feedback: Testing the Effects of Course Structure and Rich Feedback on Student Learning.*

## **TEACHING EXPERIENCE**

### ***COURSES TAUGHT ST. EDWARD'S UNIVERSITY:***

General Chemistry I (1340), Structural Inorganic Chemistry (3334), Inorganic Chemistry I and laboratory (2334, 2134), Inorganic Chemistry II and laboratory (4325, 4125), Advanced Synthesis Laboratory (4242), Organic Chemistry I (2323), Independent study research supervisor (4157), Introduction to Research (2100), Honors Thesis, Global Engagement Living Learning Community (GE LLC) Director and Seminar instructor, General Education Capstone (Embedded Study Abroad Program).

**COURSES TAUGHT TEXAS LUTHERAN UNIVERSITY CHEMISTRY:**

Problem solving in Chemistry, General Chemistry I and laboratory, General Chemistry II and laboratory, Introduction to Chemistry and laboratory, Advanced Inorganic Chemistry, Biochemistry, Biochemical Principles, Senior Seminar Capstone, Independent study research supervisor, Freshman Experience Honors section, Freshman Experience regular section, Tropical Ecology Embedded Study Abroad, Intercultural and Global Perspectives Embedded Study Abroad, Honors directed readings.

**MENTORING UNDERGRADUATE STUDENTS IN RESEARCH****ST. EDWARD'S UNIVERSITY****SUMMER 2015-PRESENT**

*Student Collaborators:* Georgia Barone, Glenn Blade, Jean-March Choufani, Emily El-Shaer, Rafael Flores, Christopher Gonzales, Steven Glanovsky, Taylor Hays, Alex Gremillion, Jennifer Jaimes\*, Wrenell Ilustre, Denisa Ivan, Jimmy Martinez\*, William Mayhew, Maria Jose Muedano Cardenas, Barret Nabona, Shadler Nguyen, Catherine Nickel, Jemima Ohwobete, Diego Saldaña, Servando Sanchez, Avery Schimpf, Rose Smiley, Johanna Green, Anthony Sanchez\*, Katherine Whitman.

\*Denotes McNair Scholars

**TEXAS LUTHERAN UNIVERSITY****Spring 2010-Spring 2015**

*Student Collaborators:* Daniela Capurro, Kyle Coleman, Andres De La Garza, Vanessa Espinoza, Donjeta Gjuka, Kyle Hilsberg, Nick Kubelka, Josh Kubena, Carmen Philips, Sandra Roberts, Mary Rosegrant, Campbell Saint Vincent, Derek Royer, Clint Taylor, Kevin Windecker.

**UNIVERSITY OF WASHINGTON****Fall 2006-Spring 2009**

*Student Collaborators:* Jason Frankel, Leah Landsem, Brandt Pein.

**HONORS AND AWARDS****Spring 2020**

Dean's Excellence in Research Award 19-20 School of Natural Sciences

**Spring 2020-Present**

Co-Chair Awards Committee, Division of Inorganic Chemistry, American Chemical Society.

**Summer 2018-Present**

Appointed Department Chair of Chemistry, St. Edward's University.

**SUMMER 2016**

Presidential Excellence Award (\$5,000). St. Edward's University competitive internal grant to support research projects.

**2012-2015**

George Kieffer Fellow in Science: Appointed by the VPAA and Rank and Tenure committee at Texas Lutheran University.

**Fall 2012-Fall 2013**

“Civic Engagement Course of the Year” in recognition to the course design methodology based on civic engagement centered pedagogies an honors freshman experience course (Two consecutive years).

2010-2011

Faculty Member of the Year

- Student choice award that requires student nominations and student votes of support.

### INVITED RESEARCH PRESENTATIONS

November 4th 2020

**Toledo, S.** *Structural and functional models for the active site of a unique dioxygenase: Acireductone Dioxygenase (ARD)*. American University, Virtual Seminar Series.

October 30th 2020

**Toledo, S.** *Structural and functional models for the active site of a unique dioxygenase: Acireductone Dioxygenase (ARD)*. University of Central Florida, Virtual Seminar Series.

May 2018

**Toledo, S.** *A family of structural analogues of the resting state of the enzyme Nickel-Acireductone Dioxygenase (Ni-ARD): Structural analysis and preliminary biomimetic reactivity*. 7th Annual Gordon A. Stone Symposium in Organometallic Chemistry. Waco, TX.

### RECENT CONTRIBUTED CHEMISTRY RESEARCH PRESENTATIONS (†Denotes undergraduate student co-authors)

March 2018

**Toledo, S.;** Gremillion, A. †; Jaimes, J. †; Ivan, A. †; Saldaña, D. †; Sanchez, A. †; Lynch, V. *Biomimetic reactivity of a family of structural analogues of the resting state of the enzyme Nickel-Acireductone Dioxygenase (Ni-ARD)*. 255th ACS National Meeting, New Orleans, LA. Published abstract (Oral).

April 2017

**Toledo, S.** *Expanding our understanding of Nickel-Acireductone Dioxygenase (Ni-ARD) through a family of structural analogues of the resting state of the enzyme*. 253<sup>rd</sup> National American Chemical Society Meeting, San Francisco, CA. Published abstract (Oral).

January 2018

**Toledo, S.;** Gremillion, A. †; Jaimes, J.†; Ivan, A. †; Saldaña, D. †; Sanchez, A. †; Lynch, V. *Using biomimetic modeling to study the enzyme Nickel ARD*. Gordon Research Conference: Metals in Biology, Ventura, CA. Published abstract (Poster).

### INVITED TEACHING PRESENTATIONS

August 2020

**Toledo, S.** *Helping Students Focus on the Learning, Not the Grade: Alternative Grading Systems to Support Student Learning*. SLiThEr Viper virtual series.  
<https://www.youtube.com/watch?v=uDs2IyTg3XM>

**April 2019**

**Toledo S.** *The whirlwind journey of the first decade of an academic career at PUIs.* 257<sup>st</sup> National Meeting of the American Chemical Society, Orlando, FL, April 2019. Published abstract.

- Part of a symposium for the division of Chemical Education titled: The Tenure-Track & Beyond: Academic Career Perspectives from Young Chemists

**October 2018**

**Toledo, S.** *A method for assigning grades using Standards Based Grading: A tool to promote student success and evaluate competency with learning objectives.* Congreso Iberoamericano de Química, XXIX Congreso Peruano de Química, Lima, Perú.

**July 2018**

**Toledo, S.;** Shepherd, T.; Dubas, J.M. *Standards Based Grading 2.0: A tool for assessing learning outcomes, increasing student success, and developing mastery of course content.* Biennial Conference on Chemical Education, Notre Dame, IN. Published abstract.

**November 2016**

**Toledo, S.** *Using Marzano's Taxonomy in Course Design.* Primer Workshop: Química Universitaria de Primer Año: Desafíos y Perspectivas. Universidad de Concepcion, Concepcion, Chile.

- Keynote speaker

**April 2013**

**Toledo, S.;** Dubas, J. *Targeting and Assessing Higher Levels of Learning: Using Marzano's Taxonomy in the College Classroom.* WAKONSE South, International Teaching Conference, Marble Falls, TX.

### **SELECTED CONTRIBUTED TEACHING PRESENTATIONS**

**August 2020**

**Toledo, S.** *A CURE Model for Upper Division Inorganic Synthesis Laboratory Courses.* ACS Fall 2020 Virtual Meeting and Exposition. Published abstract (Poster).

**July 2019**

**Toledo, S.** *Standards Based Grading 2.0: A tool for assessing learning outcomes, increasing student success, and developing mastery of course content.* National Conference of Advanced POGIL Practitioners, St. Louis, MO (Poster).

**March 2018**

**Toledo, S.** *Standards based grading in the chemistry classroom: Assessing outcomes, making grading simple and maintaining rigor.* 255th ACS National Meeting, New Orleans, LA. Published abstract (Poster).

**June 2017**

**Toledo, S.** *Alternative Grading Methods for Assessing Learning Outcomes.* National Conference for Advanced POGIL Practitioners, Muhlenberg College, Allentown, PA. (Oral)

**August 2016**

**Toledo, S.;** Dubas, J. *Using A Hybrid Model Of Standards Based Grading And Specifications Grading To Promote Learning In The General Chemistry Classroom.* 2016 Biennial Conference on Chemical Education, Greeley, CO. Published abstract (Oral).

**March 2016**

**Toledo, S.;** Dubas, J. *Got standards? Using Standards Based Grading in the General Chemistry Classroom and Beyond.* 251<sup>st</sup> National Meeting of the American Chemical Society, San Diego, CA. Published abstract (Oral).

**August 2014**

**Toledo, S.;** Dubas, J. *Active Learning Tools in Classroom Design Using Marzano's Taxonomy.* 248<sup>th</sup> National Meeting of the American Chemical Society, San Francisco, CA. Published abstract (Oral).

**July 2013**

**Toledo, S.** *Using Marzano's Taxonomy in Course Design to Target Higher Levels of Learning in the General Chemistry Series.* POGIL Southwest Regional Workshop, Colorado Springs, CO (Oral).

## **TEACHING AND LEARNING WORKSHOPS FACILITATED**

**August 2020**

Consulting with the General Chemistry coordinators of the Department of Chemistry at Lewis University. Topic: Learning outcomes and alternative grading systems.

**October 2019**

*Supporting higher order student thinking: Helping students dig deeper with effective outcomes and assessment.* Faculty development workshop, Boise State University, Center for Teaching and Learning.

**October 2019**

*Helping students focus on the learning... not the grade: Alternative grading systems to support student learning.* Faculty development workshop, Boise State University, Center for Teaching and Learning.

**May 2019**

Introduction to POGIL training and facilitation workshop, Miami Dade Community College, Miami, Florida.

**July 2019**

POGIL training and facilitation workshop, University of Notre Dame, Biennial Conference on Chemical Education, South Bend, Indiana.

**October 2018**

*Como utilizar la taxonomía de Marzano para escribir objetivos de aprendizaje y promover el pensamiento de alto-orden cognitivo.* Congreso Iberoamericano de Química, XXIX Congreso Peruano de Química, Lima, Perú.

**July 2018**

South Central POGIL Regional Meeting. POGIL training and facilitation workshops.

\*Part of a facilitation team.

**January 2018**

POGIL training and facilitation workshop, Universidad del Este Carolina, San Juan, Puerto Rico.

\*Part of a facilitation team.

**November 2016**

*Teaching and Learning Workshops on Course Design Using Marzano's Taxonomy and Alternative Forms of Feedback Using Standards Based Grading. Primer Workshop: Química Universitaria de Primer Año: Desafíos y Perspectivas. Universidad de Concepcion, Concepcion, Chile.*

**August 2016**

*Taking Learning Objectives Seriously: Drafting, Using, And Evaluating Learning Objectives In Our Classroom. St. Edward's University, Annual Teaching Symposium, Austin, TX.*

**May 2016**

Shepherd, T.; **Toledo S.** *Introduction to Process Oriented Guided Inquiry Learning: The Fundamentals.* St. Edward's University, Active Learning Faculty Workshop, Austin, TX.

**November 2013**

*Targeting Higher Levels of Learning by Using Marzano's Taxonomy in Classroom Design.* Mercer University, Macon, GA.

**June 2012**

**Toledo, S.;** Dubas, J. *Targeting and Assessing Higher Levels of Learning: Using Marzano's Taxonomy in the College Classroom.* Innovative Course Building Group (IC-bG) Summer Institute: Improving Student Learning and Faculty Success at All Levels, Macon, GA.

**June 2012**

**Toledo, S.;** Dubas, J. *Using Marzano's Taxonomy to Enhance Feedback Strategies for Students and Faculty.* San Jacinto College, Pasadena, TX.

### **SELECTED RESEARCH PRESENTATIONS CO-AUTHORED WITH UNDERGRADUATE STUDENTS** (†Denotes undergraduate student co-authors)

Over 31 presentations co-authored by undergraduate students at local, regional and national meetings.

**August 2020**

**Blade, G.†;** Lynch, V.; Toledo S. *Biomimetic reactivity of a family of N4O-Schiff base nickel complexes: Model compounds for a unique dioxygenase, Acireductone Dioxygenase (ARD).* Fall 2020 Virtual Meeting and Exposition. Published abstract (Poster).

**August 2020**

**Flores, R.†;** Healy, E.; Lynch, V.; Toledo S. *Investigating the structural and electrochemical properties of a family of biomimetic models for the Cu<sup>2+</sup> aberrant state of Cu,Zn superoxide dismutase (SOD1).* Fall 2020 Virtual Meeting and Exposition. Published abstract (Poster).

**April 2019**

**Westbrook, B.†;** Lumpan, J.†; Toledo, S.A. *A DFT study of the structure and biomimetic reactivity of Nickel acireductone dioxygenase model systems.* 257<sup>th</sup> National Meeting of the American Chemical Society, Orlando, FL. Published abstract (Poster).



**April 2019**

**Saldaña, D.†;** Blade, G.†; Toledo, S.A. *Evidence of biomimetic type reactivity for model system of Nickel acireductone dioxygenase.* 257<sup>st</sup> National Meeting of the American Chemical Society, Orlando, FL. Published abstract (Poster).

**April 2019**

**Jaimes, J.†;** Toledo, S.A. *Probing the effects of the ligand environment on the biomimetic reactivity of a nickel acireductone dioxygenase model system.* 257<sup>st</sup> National Meeting of the American Chemical Society, Orlando, FL. Published abstract (Poster).

**April 2019**

**Ilustre, W.†;** Toledo, S.A. *Biomimetic reactivity of the first resting state analogue of nickel acireductone dioxygenase.* 257<sup>st</sup> National Meeting of the American Chemical Society, Orlando, FL. Published abstract (Poster).

**October 2017**

**Jaimes, J. †;** Lynch, V.; Toledo, S.A. *Resting State Analogue of the Active Site of Nickel Acireductone Dioxygenase: Characterization and Reactivity.* 73rd Southwest Regional Meeting of the American Chemical Society, Lubbock, TX. Published abstract (Poster).

**October 2017**

**Saldaña, D.†;** Lynch, V.; Toledo, S.A. *Oxidative biomimetic reactivity of a resting state analogue of the active site of nickel acireductone dioxygenase.* 73rd Southwest Regional Meeting of the American Chemical Society, Lubbock, TX. Published abstract (Poster).

**March 2017**

**Ivan, D. †;** Toledo, S.A; Lynch, V. *Structural, spectroscopic and reactivity studies of the first structural model of the resting state of Nickel Acireductone Dioxygenase (Ni-ARD).* 253<sup>rd</sup> National Meeting of the American Chemical Society, San Francisco, CA. Published abstract (Oral).

**March 2017**

**Gremillion, A. †,** Sanchez, S†, Lynch, D., Toledo, S. *Studying the Active Site of Nickel – Acireductone Dioxygenase through Nickel and Zinc Analogues: A structural and Spectroscopic Comparison Study.* 253<sup>rd</sup> National Meeting of the American Chemical Society, San Francisco, CA. Published abstract (Poster).

**November 2016**

**Sanchez, A. †;** Lynch, V.; Toledo, S. *Structural Analogues of the Active Site of Nickel Acireductone Dioxygenase.* 72<sup>nd</sup> Southwest Regional Meeting of the American Chemical Society, Galveston, TX. Published abstract (Poster).

**November 2016**

**Green, J. †;** Lynch, V.; Toledo, S. *Modeling the Active Site of Nickel Acireductone Dioxygenase: Ligand Synthesis and Structural Analogues.* 72<sup>nd</sup> Southwest Regional Meeting of the American Chemical Society, Galveston, TX. Published abstract (Poster).

**March 2016**

**Ivan, D. †;** Gremillion, A. †; Sanchez, S. †; Toledo, S.; Martin, B. *Spectroscopic and Structural Characterization of a Biomimetic Model for the Active Site of Ni-ARD.* 251<sup>st</sup> National meeting of the American Chemical Society, San Diego, CA. Published abstract (Poster).

**November 2014**

**Espinoza, V. †; Capurro, D. †; Riske, M. †; De La Garza, A. †; Saint Vincent, C. †; Martin, B.; Toledo, S.** *Nickel Acireductone Dioxygenase Biomimetic Structural Model Complexes*. 70<sup>th</sup> Southwest Regional Meeting of the American Chemical Society, Fort Worth, TX.

Published abstract (Poster).

**November 2013**

**Petri, M. H. †; Kubena, J.W. †; Phillips, C. †; Gjuka, D. †; Roberts, S.J. †; Windecker, K. †; Hilsberg, K. †; Taylor, C. †; Martin, B.; Toledo, S.;** *Nickel for Your Thoughts: Biomimetic Modeling of Nickel Acireductone Dioxygenase's Active Site, the Other Side of the Coin*. 69<sup>th</sup> Southwest Regional Meeting of the American Chemical Society, Waco, TX. Published abstract (Oral).

- Petri won second place for best undergraduate presentation at this conference

**SELECTED PROFESSIONAL DEVELOPMENT****June 2018, June 2019, June 2020**

POGIL National Meeting. Member of the Diversity and Inclusivity strategic planning committee and working group.

**February 2019**

Alliance of Hispanic Serving Institution Educators (AHSIE) NSF Grantsmanship Institute, Phoenix, AZ.

**February 2019**

36<sup>th</sup> Academic Chairpersons Conference (ACC), Houston, TX.

**October 2018**

Congreso Iberoamericano de Química, XXIX Congreso Peruano de Química, Lima, Perú.

**September 2018**

Council of Colleges of Arts and Sciences (CCAS) Department Chairs Seminar, San Diego, CA.

**July 2017**

AAC&U PKAL STEM Leadership Institute.

**June 2017, June 2019**

National Conference for Advanced POGIL Practitioners, Muhlenberg College, Allentown, PA.

**November 2016**

Primer Workshop: Química Universitaria de Primer Año: Desafíos y Perspectivas, Universidad de Concepcion, Concepcion, Chile.

**January 2017**

2017 POGIL Facilitator Training Workshop, San Antonio, TX.

**August 2016**

Teaching Symposium: A Conference on College Teaching, St. Edward's University, Austin, TX.

**August 2016**

2016 Biennial Conference on Chemical Education, University of Northern Colorado, Greeley, CO.

**June 2016**

Organometallica: An IONiC Summer Workshop at the Frontiers of Inorganic Chemistry (NSF funded workshop).

**June 2016**

Southwestern University-HHMI Transforming STEM Pedagogy Conference, Georgetown, TX.

**April 2016**

2016 Summit for Transforming STEM Teaching in Higher Education, Boise, IA.

**February 2016**

New American Colleges and Universities Science Summit, Belmont University, Nashville, TN.

**Summer 2014**

Biennial national conference of the Council of Undergraduate Research (CUR) in Washington, DC.

**Spring 2013, 2014, 2015**

Wakonse South International Conference on College Teaching.

**Summer 2013**

McCallister and Quinn two-day workshop on grant writing opportunities. Washington, DC.

**Summer 2013**

Process Oriented Guided Inquiry Learning (POGIL) Southwest Regional Workshop, Colorado Springs, CO.

**December 2012**

Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) annual meeting, Dallas, TX.

**June 2012**

Innovative Course Building Group (IC-bG) Summer Institute: Improving Student Learning and Faculty Success at all Levels, Macon, GA.

**February 2012**

12<sup>th</sup> Annual Texas A&M Assessment Conference, College Station, TX.

**November 2011**

National Science Foundation (NSF) grant writing workshop at Texas A&M University Commerce, Commerce, TX.

**June 2011**

National Faith, Justice & Civic Learning conference, DePaul University, Chicago, IL.

**Summer 2010**

Davidson's college Synthetic Biology (G-CAT) faculty workshop.

**March 2010**

University of North Texas Next Generation Course Redesign™ workshop on "experiential learning" and "high-impact" learning course redesign practices.

**PROFFESIONAL MEMBERSHIPS****American Chemical Society****2002-Present**

- Division of Inorganic Chemistry

**Council of Undergraduate Research****2015-Present****LANGUAGES SPOKEN**

- English
- Spanish