Carmen Bustos-Works

Professional Objective

Transformative leader of a dynamic university team that fosters the teacher-scholar model in creating innovative and inclusive programs for a diverse group of students through an equity lens.

Administrative Appointments

- AVP of Academic Programs and Dean of Undergraduate and Graduate Studies and WSCUC Accreditation Liaison Officer at California State Polytechnic University, Humboldt 2021-present
- Associate Dean for the School of Science and Technology at Sonoma State University 2021
- Chair of the SSU Chemistry Department at Sonoma State University. 2015-2021
- Director of Liberal Studies at Ukiah and Napa/Solano through Sonoma State University 2019-2021
- Co-PI of California Learning Lab Grant. 2019-Current
- Director of NSF grants. 2012-Current
- Director of the Faculty Learning Program focused on inclusive and equitable teaching at Sonoma State University 2015-2019
- Chair of the Academic Senate and Faculty at Sonoma State University 2016-2017

Academic Appointments

- Professor Chemistry Cal Poly Humboldt 2021
- Professor Chemistry Sonoma State University 2012
- Associate Professor Chemistry Sonoma State University 2007-2012
- Assistant Professor Chemistry Sonoma State University 2001-2007
- Adjunct Professor Biology Sonoma State University 2002
- Adjunct Professor Chemistry Santa Barbara City College 1999-2001

Accomplishments

- Successful implementation of new programs launched 2023 and Polytechnical designation for Cal Poly Humboldt.
- Successful implementation of Individualized Degree Plan concentration as part of ITDs to help students find additional pathways to graduation at Cal Poly Humboldt
- Successful implementation of cluster hiring process to increase faculty diversity at Cal Poly Humboldt.
- Successful reimaging advising at Cal Poly Humboldt.

- Research advisor to over 55 undergraduate students and two graduate students over 20 years at Sonoma State, resulting in over 100 posters, and 10 peer-reviewed publications with undergraduate co-authors. Many of these students have continued their education and three are currently professors.
- Implementation of a sustainable assessment plan for general education program at SSU
- Sonoma State's Excellence in Teaching Award
- Created and launched successful programing for inclusive learning in STEM via First Year Learning Communities (FYCs) and research experiences for Chemistry and Biochemistry majors

Education

Ph.D. Chemistry 2001
University of California, Santa Barbara

M.S. Chemistry 1998
University of California, Santa Barbara

B.A. Chemistry and B.A. Psychology 1996
San Francisco State University
Cum Laude

Additional Administrative and Leadership Roles

- Acting Provost and Vice President of Academic Affairs – April 11-15th 2024, June 9-13, 2023, Nov. 21-23, 2022 and Sept 30, 2022
- Member of the Emergency Operation Center for Cal Poly Humboldt 2022-present
- Co-lead for the Inclusive Student Success Group (GI2025) 2021-present
- Member of the Poly Tech Implementation Group 2021-present
- Member of the cluster hiring diversity initiatives 2021-2022
- Member of the advising working group 2021-present
- Member of the Senate Executive Committee. 2009-2018
- Member of the University RTP Committee. 2018-2021
- Mentor for Faculty, Staff and Students. Ongoing
- Vice-Chair of the Academic Senate. 2014-2016
- Chair Structure and Functions. 2015-2016
- Chair of the Educational Policy Committee. 2009-2010

Strategic Planning and Budget

- Head of a large MBU in Academic Programs 2021-present
- Chair of Strategic Planning Committee for Graduate Studies – present
- Co-Lead of General Education Program Review – present
- Co-Chair of the SSU Strategic Planning Committee where we developed and implemented a 5-year strategic plan, 2025. 2017-2018
- Member of the President's Budget Advisory Committee. 2015-2019

Accreditation and Assessment

- ALO for Cal Poly Humboldt 2021-present
- Member of the GE assessment team at SSU. 2020
- Co-Chair of the WASC Steering Committee. 2018
- Participated in GE assessment institute through AACU. 2018
- Member of the GE Program Review Team for SSU. 2009

Communication and Collaboration

- Lead administrator of team of directors, coordinators, and analysts that advance initiatives in curriculum, advising, assessment and graduate studies through an equity lens.
- Collaborates with College Deans, CIO, AVPs and directors as part of the Provost Leadership Team.
- Work with multiple departments on the SSU campus and stakeholders at Mendocino College to coordinate and direct a Liberal Studies degree completionfrom SSU at Mendocino College.
- Member of the GE implementation team at SSU.
- Coordinated multiple faculty retreats for both the Chemistry Department and the University which have resulted in curriculum revisions in GE.
- Coordinated University Convocation. 2016
- Work with a diverse group of faculty and students to help foster student success, cultivate leadership and create transformative experiences at SSU.
- Serve the Chemistry Department as a representative to the Counsel of Department Chairs for the School of Science and Technology. 2015-current
- Served the University by contributing to hiring committees for administrators, faculty and staff members.
- Contribute regularly to freshman and transfer advising and orientation.
- Contribute regularly to Seawolf Decision day where I communicate with both prospective students and their families.

Teaching Experience

Courses Taught

- Thinking Like a Scientist
- General Chemistry I & II
- Honors General Analytical Chemistry I & II
- Advanced Inorganic Chemistry
- Research Methods in Chemistry
- Structural Biochemistry
- Instrumental Analysis and Chemical Synthesis
- Advanced Synthesis and Instrumental Analysis
- Biochemical Methods – Protein purification
- Chemistry Elective Bioinorganic Chemistry and Chemistry Pedagogy
- Research Seminar
- Undergraduate Research

Curriculum Development and High Impact Practices

- Member and Chair of the Educational Policy committee (SSU) which is the universitycurriculum committee -creating pathways for departments to implement good curriculum. 2004-2013.
- Created a frame work for the Chemistry and Biochemistry First Year Experienceat SSU and implemented a course in critical thinking in the department of chemistry. SSU, 2011
- Institutionalized Undergraduate Research into the Chemistry Department – spearheaded the redesign of SSU's chemistry undergraduate research course and experience. S S U 2010
- New Chemistry Curriculum-spearheaded the development of the chemistry curriculum for the BA in chemistry and the BS in both chemistry and biochemistry. Worked with the faculty to draft the curriculum for department, school and university approval. SSU 2010
- Honors General and Analytical Chemistry-was responsible for the development and initial implementation. SSU 2008

Research Experience

Principal Investigator Fall 2001 - present

1. Investigation into the photochemistry of the reactivity of μ-(1,3-propanedithiolato)-hexacarbonyldiiron. This compound is a structural and functional model for the active site of iron-only hydrogenase. The photochemical experiments in this project could lendinsight into how bacteria use hydrogen as a fuel.

2. Increasing equity and diversity in STEM through the creation of online materials for both students and faculty. These efforts are aimed to disrupted narratives of what determines scientific brilliance and foster an inclusive set of practices that redefine scientific competence.

3. Investigation of the importance of proteins in the role of detoxification of chromium(VI). My research at SSU has shown that chromium (III) can form protein complexes.

Selected Funded Grants

1. Principal Investigator Foundation for California Community Colleges Rebuilding with Equity Grant, "K16 Collaborative for the Redwood Coastal Region" $18M. 2022-2026. Subawards: SSU ($5 M), UCD ($1 M), Mendocino College, College of the Redwoods, County of Education (COE) for Humboldt, Lake, Mendocino, Del Norte all at $500K. Co-Principal Investigators, Provost Capps and AVP Gonzalez Cal Poly Humboldt.

2. Co-Principal Investigator California Learning Lab Scaling Grant "Student Identity and Self-Perception as Capable STEM Thinkers and Learners" $700K (~$52K to Cal Poly Humboldt). 2022-2024. Principal Investigator Paul Daubenmire College of Marin.

3. Principal Investigator California Learning Lab Seeding Strategies Grant "Piloting

a Stretch Calculus Class for Inclusive Teaching of All Students" $100K. 2022-2024. Co-Principal Investigator Bori Mazzag Cal Poly Humboldt.

4. Co-Principal Investigator California Learning Lab Grant "Developing Student Identity and Self-Perception as Capable STEM Thinkers and Learners" $1.3 M (~$240K to Sonoma State University). 2019-2022 (no cost extension into June 23). Principal Investigator Paul Daubenmire College of Marin.

5. Principal Investigator National Science Foundation Research for Undergraduate Institutions Grant "Mechanistic Investigation of Photochemical Products from Iron-Iron Hydrogenase Model Compounds; Insight into the Catalytic Generation and Activation of Molecular Hydrogen" $180K. 2011-2021 (No cost extension through June 2023).

6. Principal Investigator Koret Scholar Award "Mechanistic Investigation of Photochemical Products from Iron-Iron Hydrogenase Model Compounds" $5,800. 2017.

7. Principal Investigator California State University Proven Course Redesign Grant "Adopting High Impact Practices for General Chemistry" $17,000. 2016.

8. Principal Investigator Sonoma State Mini Grant "Photochemical and Toxicity Studies of an Iron Based CO-Releasing Molecule" $3,400. 2015.

9. Principal Investigator Sonoma State Source Awards Grant "Bioinorganic Chemistry of Chromium(III)" $4,000. 2015. Student Co-Principal Investigators from Sonoma State University.

10. Principal Investigator CSUPERB Program Development Grant "Thinking Like a Scientist-creation of a Learning Community in Chemistry and Biochemistry and Critical Thinking" $13,454. 2014.

11. Co-Principal Investigator National Science Foundation Major Research Instrumentation Grant "Acquisition of a 400 MHz NMR Spectrometer" $349,058. 2011-2015 Principal Investigator Jennifer Lillig Sonoma State University.

12. Principal Investigator National Science Foundation Research Undergraduate Institutions Grant "Photochemical and Kinetic Studies of Iron-Only Hydrogenase Model Compounds" $129,754. 2011- 2015.

13. Principal Investigator Sonoma State University Research Stipends for Undergraduate Students, "Photochemical and Kinetic Studies of Iron-Only Hydrogenase Model Compounds" $2500 total for student stipends ranging from $500 to $750. 2008-2010.

14. Principal Investigator CSUPERB Faculty Seed Grant "Primary Structural Investigation of Two Novel Chromium(III)-proteins" $10,000. 2005-2007.

15. Principal Investigator RSCAP Mini Grant Sonoma State University "Photochemical and Kinetic Studies of Iron-Only Hydrogenase Model Compounds" $2,000. 2005.

16. Principal Investigator RSCAP Mini Grant Sonoma State University "Support Undergraduate Summer Research" $4,200. 2003.

17. Principal Investigator, Biotechnology Programmatic Development Grant, Curriculum and Infrastructure Development, CSUPERB. "Development of a Biochemistry Concentration." $15,000. 2003 Co-Principal Investigator Jennifer Lillig Sonoma State University.

Peer-Reviewed Publications

1. "Moving Toward Inclusivity in Chemistry by Developing Data-Based Instructional Tasks Aimed at Increasing Students' Self-Perception as Capable Learners Who Belong in STEM", **Carmen Bustos-Works,** Jennifer Whiles Lillig, Chase Clark, Paul Daubenmire, Jennifer Claesgens, Alexis Shusterman, Cory Antonakos, Erin Palmer, Ellen D. Beaulieu, Angelica M. Stacy, Michelle Douskey, and Hien D. Nguyen, *Journal of Chemical Education* **2022** *99* (1), 177-184; DOI: 10.1021/acs.jchemed.1c00366
2. "Teaching Upper Division Chemistry and Biochemistry Capstone Lab Courses During a Pandemic." Lillig, J.; Fukuto, J.; Lares, M.; Negru, B.; **Works, C.** *Journal of Chemical Education*, June **2020**, 97, 9, 2987-2991.
3. The chemical Biology of Hydrogen Sulfide and Related Hydropersulfides: Interactions with Biologically Relevant Metals and Metalloproteins. Fukuto, J.M.;Vega, V.S.; **Works, C**.; Lin, J. *Current Opinion in Chemical Biology* 55, **2020**, 52-58.
4. Photoinduced Terminal Hydride of [FeFe]-Hydrogenase Biomimetic Complexes.Niu, S; Nelson, A.E.; De La Torre, P.; Li, H.; **Works, C.F.;** Hall, M.B. *InorganicChemistry* 58, 2019, 13737-13741.
5. Photochemical Reactivity of a Binuclear Fe (I)-Fe (I) Hydrogenase Model Compound with Cyano Ligands. Hunt, A.; Barrett, J.; McCurry, M.; **Works, C.** *Polyhedron* 114, **2016**, 306-312.
6. The chemistry, biology and design of photochemical CO releasing molecules andthe efforts to detect CO for biological applications. Marhenke, J., Trevino, K., **Works, C**. *Coordination Chemistry Reviews*. **2016**, 306, 533-543.
7. Advanced Inorganic Lab Experiment: Synthesis and Characterization of μ- $S_2Fe_2(CO)_6$. Barrett, J.; Spentzo, A.; **Works, C**. *Journal of Chemical Education***2015**, 92 (4), 719-722.
8. Flash Photolysis and Continuous Photolysis of an Iron-Iron Hydrogenase Model(μ-pdt)$[Fe(CO)_3]_2$ in Different Solvents; Insight into the Inhibition by CO. Marhenke, J.; Pierri, A.; Lomotan, M.; Ford, P.C. *Inorganic Chemistry* **2011**, 50(23) 11850-11852.
9. Oxidation of Chromium(III) Binding Proteins and Implications for Insulin Activity in Glucose Metabolism. White, S.A., **Works, C.F**. *Journal of Undergraduate Chemistry Research* **2010**, 9(2) 36-38.
10. Photochemical studies of iron-only hydrogenase model compounds Brown-McDonald, J., Berg, S., Peralto, M., **Works, C** *Inorganica Chimica Acta* **2009**,362, (2) 318-324.
11. Isolation of a Novel Chromium(III) Binding Protein from Bovine Liver Tissue After

Chromium(VI) Exposure. Ryan L. Peterson, Kelly J. Banker, Thelma Y. Garcia, and **Carmen F. Works**. *Journal of Inorganic Biochemistry*. **2008** (102)833–841.

12. Synthesis, Purification and Characterization of a μ-(1,3-propanedithiolato)-hexacarbonyldiiron: Laboratory Experiment or Mini-Project for Inorganic Chemistry or Integrated Laboratory. **Works, C.F**. *J. Chem. Ed.* **2007** (84) 836.
13. Purification of a chromate reductase from a pseudomonad**.** Skarra, D.V. and **Works, C.** *Preprints of Extended Abstracts, American Chemical Society*, *Division of Environmental Chemistry* **2005**, 45(1), 461-466. Presented at the ACSNational Meeting in San Diego.
14. Photochemical Nitric Oxide Precursors: Synthesis, Photochemistry, and Ligand Substitution Kinetics of Ruthenium Salen Nitrosyl and Ruthenium Salophen Nitrosyl Complexes **Works, C. F**.; Jocher, C. J.; Bart, G. D.; Bu, X.; Ford, P. C.*Inorg. Chem*. **2002,** *41*(14), 3728-3739.
15. Reactions of Nitrogen Oxides with Heme Models. Characterization of NO and NO_2 Dissociation from Fe(TPP)(NO_2)(NO) by Flash Photolysis and Rapid Dilution Techniques: Fe(TPP)(NO_2) as an Unstable Intermediate. Lim, M.D.; Lorkovic, I.M; Wedeking, K; Zanella, A.A.; **Works, C.F.**; Massick, S.M.; Ford,P.C. *J. Am. Chem. Soc* **2002**, 124(33), 9737-9743.
16. Photoreactivity of the Ruthenium Nitrosyl Complex, Ru(salen)(Cl)(NO). Solvent Effects on the Back Reaction of NO with the Lewis Acid Ru(III)(salen)(Cl) **Works, C. F**. and C. Ford, P.C. *J. Am. Chem. Soc*. (**2000**), *122*(31), 7592-7593

Selected Conference Contributions

1. "Chem Avengers Summer Institute" Paul Daubenmire, Cory Antonakos, Erin Palmer, Carmen Bustos-Works, Angy Stacy, Ellen Beaulieu. UC Berkeley 2023.
2. "Developing Students Identity and Self-Perception as Capable STEM Thinkersand Learners." Carmen Bustos-Works, Chemistry DEI conference, UCSC 2023
3. Photochemical Studies of [Fe-Fe] Hydrogenase Model Complexes and Thermal Reactivity of Photoproducts with Small Molecules. Developing the Next Generation of STEM Leaders to Rethink What it Means to be Good at Science. UC Davis Inorganic Chemistry Symposium. 2022
4. "Developing Students Identity and Self-Perception as Capable STEM Thinkersand Learners." Paul Daubenmire, Hien Nguyen, Cory Antonakos, Erin Palmer,Jennifer Whiles-Lillig, Carmen Works, and Angy Stacy. Equity in STEM, Berkeley CA. 2019.
5. "Analyzing the Photochemistry Product of Trimethylphosphine Hydride a Common [FeFe]-Hydrogenase Model Compound". Karina Cruz and Carmen Works Science Symposium. Rohnert Park CA. 2019
6. "Kinetics and Quantum Yields of [Fe-Fe] hydrogenase model complexes". Brandon Jolly and Carmen Works Science Symposium, Rohnert Park, 2019.
7. "Kinetics and Quantum Yields of [Fe-Fe] hydrogenase model complexes." Brandon Jolly and Carmen Works N. California Undergraduate ACS Meeting. Santa Clara CA. 2019
8. "Photochemical and Thermal Analysis of Phosphine Modified Hydrogenase Model Compounds". Carmen Works, National ACS Meeting. Orlando Fl. 2019
9. "Temperature and solvent dependent kinetics and quantum yield of [Fe-Fe] hydrogenase model complexes" Brandon Jolly and Carmen Works National ACS

Meeting. Orlando Fl. 2019

10. "Synthesis and Cell Protection Studies of the Dithiolate- Bridged Diiron Hexacarbonyl Complex". Anna Thompson and Natalie Asemi and Carmen WorksScience Symposium. Rohnert Park CA. 2019
11. "Synthesis and Photochemistry study of Novel [FeFe]Hydrogenase Model Complexes". Valentino Perez, Luis Esquivel and Carmen Works Science Symposium. Rohnert Park CA. 2019
12. "Synthesis and Photochemistry study of Novel [FeFe]Hydrogenase Model Complexes". Valentino Perez and Carmen Works N. California Undergraduate ACS Meeting. Santa Clara CA. 2019
13. "Investigation of Photochemical Products from Fe-Fe Hydrogenase Model Complexes." Anne E. Nelson, Patricia De La Torre and Carmen Works, ACS National Meeting, San Francisco, 2017.
14. "Synthesis and Characterization of Cobalt (II) Salen and its Possible Interactionswith Persulfide Species". Lucia Alvarez, Annika Holms, Jon Fukuto, Valeria Suarez and Carmen Works, 253rd ACS National Meeting, San Francisco, 2017.
15. "Diiron Carbonyl; Carbon Monoxide Releasing Compound" Christopher Stephenson, Elizabeth Duran and Carmen Works, 253rd ACS National Meeting,San Francisco, 2017.
16. "Photochemical Studies of Fe(I)-Fe(I) Hydrogenase Model Complex". Anne E. Nelson, Andrew Hunt and Carmen Works, CSUPERB 29th Annual CSU Biotechnology Symposium, 2017.
17. "Synthesis and Characterization of Cobalt(II) Salen and its Possible Interactions with Persulfide Species, CSUPERB 29th Annual CSU Biotechnology Symposium,2017.
18. "Photochemical Studies of an [FeFe]-Hydrogenase Model Complex". Anne Nelson and Carmen Works, 251st ACS National Meeting, San Diego, 2016.
19. "Synthesis and Characterization of a Novel PhotoCORM" Meghan McCurry and Carmen Works, CSUPERB 28th Annual CSU Biotechnology Symposium, 2016.
20. "Binding of Chromium(III) to Transferrin" Patricia De La Torre and Carmen Works, CSUPERB 28th Annual CSU Biotechnology Symposium, 2016.
21. "Chromium(VI) Reduction by a Novel Bacteria" Alex Staidle and Carmen Works, CSUPERB 28th Annual CSU Biotechnology Symposium, 2016.
22. "Photochemistry of Iron-Iron Hydrogenase Model Compounds; Potential Hydrogen Catalysts" Andrew Hunt, Anne Nelson and Carmen Works, CSUPERB28th Annual CSU Biotechnology Symposium, 2016.
23. "Chemistry and Biochemistry Learning Community for First Year Students" Jennifer Lilligy, Jared Wiltse, Jon Fukuto and Carmen Works, AACU, Seattle 2015.
24. "Quantification of Carbon Monoxide from a Photochemical Carbon Monoxide Releasing Molecule (PhotoCORM) using a Binuclear Rhodium(II) Compound"Kim Trevino and Carmen Works, CSUPERB 27th Annual CSU Biotechnology Symposium, 2015.
25. "Chemistry and Biochemistry Learning Community for First Year Students" Jennifer Lillig, Jared Wiltse, Jon Fukuto and Carmen Works, CSUPERB 27th Annual CSU Biotechnology Symposium, 2015. Santa Clara
26. "Quantification of Carbon Monoxide from a Photochemical Carbon Monoxide Releasing Molecule (PhotoCORM) using a Binuclear Rhodium(II) Compound"Kim Trevino and Carmen Works, Faculty Expo Sonoma State University, 2015.
27. "Chromium(III) binding to glutathione and transferrin." Hank Seeley and Carmen Works, CSUPERB 26th Annual CSU Biotechnology Symposium, 2014.
28. "The Synthesis and Characterization of Iron-iron Hydrogenase Model Compounds for use as Potential Photo-CORMs" Jacob Barrett and Carmen Works, CSUPERB 26th Annual CSU Biotechnology Symposium, 2014.
29. "Photochemical studies of possible photo-induced CO releasing molecule μ-(1,3-pdt)-

$[Fe(CO)_3)]_2$" Jaimey Homen, Carmen Works, CSUPERB 26th Annual CSU Biotechnology Symposium, 2014.
30. "Photochemical Studies of Iron-Iron Hydrogenase Model Compounds in Various Solvents." Talk- Carmen Works, 245rd National ACS Meeting, New Orleans, LA., 2013.
31. "The Synthesis and Characterization of Iron-iron Hydrogenase Model Compounds for use as Potential Photo-CORMs" Jacob Barrett and Carmen Works, NCUAC –talk Spring 2013.
32. "Binding Studies of Chromium(III) to glutathione and transferrin." Hank Seeleyand Carmen Works, NCUAC –talk Spring 2013.
33. Photochemical studies of possible photo-induced CO releasing molecule μ-(1,3- pdt)-$[Fe(CO)_3)]_2$" Jaimey Homen, Carmen Works, NCUAC –poster Spring 2013.
34. "Photochemical Studies of Iron-Iron Hydrogenase Model Compounds in Various Solvents." Poster -Heidi van de Wouw, Peter Damon and Carmen Works, 243rd National ACS Meeting, San Diego CA, 2012.
35. "Quantum Yield Determinations of Iron-Iron Hydrogenase Model Compounds" Heidi van de Wouw and Carmen Works, talk, NCUR Symposium, Spring 2012.
36. "Isolation and Characterization of a Novel Chromium Binding Protein" J. Bernardand C. Works, CSU Student Research Competition, 2011.
37. "Isolation and Purification of Chromate Reductase from Novel Pseudomonas veronii." M. Lomotan and C. Works. CSU Student Research Competition, 2011.
38. "Photochemical Studies of Iron-Only Hydrogenase." M. Pope and C. Works. ACS 23rd Annual Northern California Undergraduate Research Symposium. 2011.
39. "Isolation and Purification of Chromate Reductase from Novel Pseudomonas veronii." M. Lomotan and C. Works. ACS 23rd Annual Northern California Undergraduate Research Symposium. 2011.

Selected Shared Governance

- Department RTP Committee – member and chair
- Chair of Department Search Committee
- Member, Curriculum Committee
- Academic Advisor, Chemistry Majors and Minors
- Member, Scholarship Committee.
- Member, Radiation Safety Committee
- Member, Darwin Transition Committee
- Member, Strategic Planning Committee
- Member, MESA
- Chair of the Faculty and Academic Senate
- Co-Chair of the WASC Steering Committee
- Member of the President Diversity Council
- Member of Structure and Functions
- Member of search committee for the Associate Vice President for Academic Affairs
- Member of search committee for the Director of the Faculty Center
- Chair of Structure and Functions
- Vice Chair of the Academic Senate
- Member of screening committee for the Director of Undergraduate Studies

- Member of the Dean Review Committee for Dean Rahimi
- Executive Committee - member
- GE subcommittee – liaison
- Contributor to GE program Review and the developmentof GE area Learning Outcomes
- Contributor to WASC coordination and visitation
- Member and Chair, Educational Policies Committee (EPC). Educational policy decisions worked on program review policy, course withdrawal policy, course outline policy, thefreshman year experience proposal, and service learning.
- Member, Faculty Standards and Affairs (FSAC). Contributedto the development of several faculty policies: course outlinepolicy, the endowed chairs policy, and excellence in teachingaward policy

Professional Development

Coordinated and led Workshops

- Socrative and ShowMe – SSU Technology Show Case in the Faculty Center 2016
- ShowMe Demo – Moodle demonstration day SSU - 2016
- General Education for the 21st century – SSU faculty retreat 2016
- How Learning Happens – SJSU 2016
- Embracing Change – SSU faculty retreat 2015
- Using Apps in the Classroom – SSU Faculty Center 2015
- General Education student learning outcomes – SSU Senate 2009

Honors and Awards

- Sabbatical Award.
- Educational Enhancement Award
- Excellence in Teaching Award
- Graduate Opportunity Fellowship
- Women and Minority Program for Graduate Education

Professional Affiliations

- American Chemical Society
- Counsel of Undergraduate Research