

Louise Antoinette Berben

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EDUCATION & TRAINING

Postdoctoral Associate, Massachusetts Institute of Technology and California Institute of Technology	<i>Advisor: Jonas C. Peters</i>	2009
Ph.D. Chemistry, University of California Berkeley	<i>Advisor: Jeffrey R. Long</i>	2005
B.Sc. (Hons 1) Pure and Applied Chemistry, The University of New South Wales, Australia	<i>Advisor: Stephen B. Colbran</i>	2000

PROFESSIONAL APPOINTMENTS

Professor of Chemistry, University of California Davis	2019-present
Associate Editor, Chemical Society Reviews, Royal Society of Chemistry	2017-present
Associate Professor of Chemistry, University of California Davis	2014-2019
Assistant Professor of Chemistry, University of California Davis	2009-2014
Postdoctoral Associate, Massachusetts Institute of Technology	2007-2009
Postdoctoral Associate, California Institute of Technology	2006-2007

HONORS & AWARDS

- Visiting Scholar, University of Sydney, 2019
- France-Berkeley Fund Award, 2018
- Chancellors Fellow, UC Davis, 2016
- Kavli Fellow, 2015
- Fellow, Royal Society of Chemistry, 2014
- ACS *Organometallics* Young Investigator Fellow, 2014
- ACS Rising Star Award, WCC, 2014
- RSC *Chemical Communications* Emerging Investigator Lectureship, 2013
- Alfred P. Sloan Foundation Fellow, 2012
- CAREER Award, National Science Foundation, 2011
- Dow Chemical Company Postdoctoral Fellow, 2006
- Outstanding Graduate Student Instructor, University of California Berkeley, 2003
- Royal Australian Chemical Institute Student Prize, 1999
- University of New South Wales Honors Year Fellow, 1999
- University of New South Wales, School of Chemistry Honors Fellow, 1999
- University of New South Wales Chemical Society Prize, 1998

PUBLICATIONS

56. Sherbow, T. J.⁺; Thompson, E. J.⁺; Arnold, A.; Sayler, R. I.; Britt, R. D.; Berben, L. A. Electrochemical Reduction of N₂ to NH₃ at Low Potential by a Molecular Aluminum Complex. *Chem. Eur. J.* **2019**, *25*, 454-458. ⁺equal contribution. *Invited Cover Art*

55. Phan, N. A.; Fettinger, J. C.; Berben, L. A. A Ligand Protonation Series in Aluminum(III) Complexes of Tridentate Bis(enol)amine Ligand. *Organometallics* **2018**, *37*, ASAP. *Special Issue on Organometallic Complexes of Electropositive Elements for Selective Synthesis*
54. Cluff, D. B.; Arnold, A.; Fettinger, J. C.; Berben, L. A. Electrocatalytic Reduction of CO₂ into Formate by Glassy Carbon Modified with [Fe₄N(CO)₁₁(PPh₂Ph-linker)]⁻. *Organometallics* **2018**, *37*, ASAP. *Special Issue on Organometallic Electrochemistry: Redox Catalysis Going the Smart Way*
53. Taheri, A.⁺; Carr, C. R.⁺; Berben, L. A. Electrochemical Methods to Assess Kinetic Factors in CO₂ Reduction to Formate: Implications for Improving Electrocatalyst Design. *ACS Catalysis* **2018**, *8*, 5787-5793. ⁺equal contribution.
52. de Bettencourt-Diaz, A.*; Berben, L. A.; Prieto, A. L. Synthetic Chemistry Addressing Challenges in Energy and the Environment. *Inorganic Chemistry* **2018**, *57*, 3656-3657. *Guest Editorial*
51. Taheri, A.⁺; Loewen, N. D.⁺; Cluff, D. B.; Fettinger, J. C.; Berben, L. A. Considering a Role for [H-Fe₄N(CO)₁₂]²⁻ in the Electrocatalytic Reduction of CO₂ to Formate. *Organometallics*, **2018**, *37*, 1087-1091. ⁺equal contribution. *Invited Cover Art*
50. Jang, H.; Qiu, Y.; Hutchings, M. E.; Nguyen, M.; Berben, L. A.; Wang, L.-P.* Quantum Chemical Studies of Redox Properties and Conformational Changes of a Four-Center Iron CO₂ Reduction Electrocatalyst. *Chem. Sci.*, **2018**, *9*, 2645-2654. *Invited Cover Art*
49. Wang, S.; Sherbow, T. J.; Berben, L. A.; Power, P. P.* Reversible Coordination of H₂ by a Distannyne. *J. Am. Chem. Soc.* **2018**, *140*, 590-593. *Invited Cover Art*
48. Loewen, N. D.; Neelakantan, T.; Berben, L. A. Renewable Formate from C-H Bond Formation with CO₂: Using Iron Carbonyl Clusters as Electrocatalysts. *Acc. Chem. Res.* **2017**, *50*, 2362-2370.
47. Johnson, B. M.; Franke, R.; Little, R. D. Berben, L. A. High Turnover in Electro-oxidation of Alcohols and Ethers with a Glassy Carbon-Supported Phenanthroimidazole Mediator. *Chem. Sci.*, **2017**, *8*, 6493-6498.
46. Sherbow, T. J.; Berben, L. A. Control of Ligand pK_a Values Tunes Electrocatalytic H₂ Evolution Mechanism in a Redox Active Al(III) Complex. *Inorg. Chem.* **2017**, *56*, 8651-8660. *Forum on Advances in Main-Group Inorganic Chemistry*
45. Loewen, N. D.; Thompson, E. J.; Kagan, M.; Banales, C. L.; Myers, T. W.; Fettinger, J. C.; Berben, L. A. A Pendant Proton Shuttle on [Fe₄N(CO)₁₂]⁻ Alters Product Selectivity in Formate vs. H₂ Production via the Hydride [H-Fe₄N(CO)₁₂]⁻. *Chem. Sci.* **2016**, *7*, 2728-2735.
44. Sherbow, T. J.; Carr, C. R.; Saisu, T. Y.; Berben, L. A. Insight into Varied Reaction Pathways for O-H and N-H Bond Activation by Bis(imino)pyridine Complexes of Al(III). *Organometallics* **2016**, *35*, 9-14.
43. Taheri, A.; Berben, L. A.: Making C-H Bonds with CO₂: Production of Formate by Molecular Electrocatalysts. *Chem. Commun.* **2016**, *52*, 1768-1777. This paper in top 1% for number of citations received in the field of chemistry 6 months after publication
42. Wagner, C. L.; Tao, L.; Thompson, E. J.; Stich, T. A.; Guo, J.; Fettinger, J. C.; Berben, L. A.; Britt, R. D.; Nagase, S.; Power, P. P.* Dispersion Force Assisted Disproportionation: A Stable Two-Coordinate Copper(II) Complex. *Angew. Chem. Intl. Ed.* **2016**, *55*, 10444-10447.
41. Taheri, A.; Berben, L. A. Tailoring Electrocatalysts for Selective CO₂ or H⁺ Reduction: Iron Carbonyl Clusters as a Case Study. *Inorg. Chem.* **2016**, *55*, 378-385. *Forum on Small Molecule Activation from Biological Principles to Energy Applications: Part 3*. This paper in top 1% for number of citations received in the field of chemistry 6 months after publication. *Highlighted in ACS Virtual Issue*
40. Taheri, A.; Berben, L. A.: A Molecular Iron Electrocatalyst for Reduction of CO₂ to Formate in Water: Selective Catalysis and Thermochemical Insights. *ACS Catalysis* **2015**, *5*, 7140-7515.
39. Thompson, E. J.; Berben, L. A. Ligand-Based Proton and Electron Transfer Mediates Electrocatalytic Reduction of Protons to H₂. *Angew. Chem. Intl. Ed.* **2015**, *54*, 11642-11646. *Invited Cover Art*

38. Myers, T. W.; Sherbow, T. J. Fettinger, J. C.; Berben, L. A. Synthesis and Structural Characterization Bis(imino)pyridine Ligand Complexes of Divalent Mg and Zn. *Dalton Trans.* **2016**, 45, 5989-5998. *Special Issue on Main Group Transformations*
37. Berben, L. A.; de Bruin, B.; Heyduk, A. L.: Non-innocent Ligands. *Chem. Commun.* **2015**, 51, 1552-1554. *Guest Editorial.*
36. Ghiassi, K. B.; Walters, D. T.; Aristov, M. N.; Loewen, N. D.; Berben, L. A.; Rivera, M.; Olmstead, M. M.;* Balch A. L.* Formation of a Stable Complex, RuCl₂(S₂CPh₃)(PPh₃)₂, Containing an Unstable Zwitterion from the Reaction of RuCl₂(PPh₃)₃ with Carbon Disulfide. *Inorg. Chem.* **2015**, 54, 4565-4573.
35. Moulé, A. J.;* Jung, M. C.; Rochester, C. W.; Tress, W.; LaGrange, D.; Jacobs, I. E.; Li, J.; Mauger, S. M.; Rail, M. D.; Lin, O.; Bilsky, D.; Allard, S.; Qi, Y.; Stroeve, P.; Reide, M.; Berben, L. A.; Scherfe, U.: Mixed interlayers at the interface between PEDOT:PSS and conjugated polymers provide charge transport control. *J. Mater. Chem. C.* **2015**, 3, 2644-2676.
34. Thompson, E. J.; Myers, T. W.; Berben, L. A.: Synthesis of Square Planar Aluminum(III) Complexes. *Angew. Chem. Intl. Ed.* **2014**, 53, 14132-14134.
33. Berben, L. A.: Catalysis by Aluminum(III) Complexes of Non-Innocent Ligands. *Chem. Eur. J.* **2014**, 23, 2734-2742.
32. Berben, L. A.; Love, J. B.: Metal-Mediated Transformations of Small Molecules. *Chem. Commun.* **2014**, 50, 7221-7222. *Guest Editorial.*
31. Kuppuswamy, S.; Powers, T. M.; Johnson, B. M.; Brozek, C. K.; Krogman, J. P.; Bezpalko, M. W.; Berben, L. A.; Keith, J. M.; Foxman, B. M.; Thomas, C. M.: One-Electron Oxidation Chemistry and Subsequent Reactivity of Diiron-Imido Complexes. *Inorg. Chem.* **2014**, 53, 5429-5437.
30. Myers, T. W.; Berben, L. A.: Aluminum-Ligand Cooperation Promotes Selective Dehydrogenation of Formic Acid to H₂ and CO₂. *Chem. Sci.* **2014**, 5, 2771-2777.
29. Mauger, S. A.; Li, J.; Özmen, O. T.; Yang, A. Y.; Friedrich, S.; Rail, M. D.; Berben, L. A.; Moulé, A. J. High Work-Function Hole Transport Layers by Self-Assembly Using a Fluorinated Additive. *J. Mater. Chem. C.* **2014**, 2, 115-123.
28. Nguyen, A. D.;⁺ Rail, M. D.;⁺ Shanmugam, M.; Fettinger, J. C.; Berben, L. A. Electrocatalytic Hydrogen Evolution from Aqueous Solution by a Series of Iron Carbonyl Clusters. *Inorg. Chem.* **2013**, 52, 12847-12854. ⁺equal contribution.
27. Myers, T. W.; Berben, L. A. Aluminum-Amido Mediated Heterolytic Addition of Water Affords an Alumoxane. *Organometallics* **2013**, 32, 6647-6649. *Special Issue on Applications of Electrophilic Main Group Molecules*
26. Myers, T. W.; Berben, L. A. Aluminum-Ligand Cooperative N-H Bond Activation and an Example of Dehydrogenative Coupling. *J. Am. Chem. Soc.* **2013**, 135, 9988-9990.
25. Myers, T. W.; Yee, G. M.; Berben, L. A. Redox Induced Carbon-Carbon Bond Formation Using Non-Innocent Ligands. *Eur. J. Inorg. Chem.* **2013**, 3831-3835. *Special Issue on Small Molecule Activation*
24. Myers, T. W.; Berben, L. A. Redox Active Aluminum(III) Complexes Convert CO₂ into MgCO₃ or CaCO₃ in a Synthetic Cycle Using Mg or Ca Metal. *Chem. Commun.* **2013**, 49, 4175 - 4177. *Emerging Investigators Special Issue*
23. Subramaniam, K.; Powers, T.; Johnson, B. M.; Bezpalko, M.; Brozek, C.; Foxman, B.; Berben, L. A.; Thomas, C. M.* Metal-Metal Interactions in C₃-Symmetric Diiron Imido Complexes Linked by Phosphinoamide Ligands. *Inorg. Chem.* **2012**, 51, 4802-4811.
22. Cates, C. D.; Myers, T. W.; Berben, L. A. (IP)₂Ga^{III} Complexes Facilitate Net Two-Electron Redox Transformations (IP = α -Iminopyridine). *Inorg. Chem.* **2012**, 51, 11891-11897.

21. Myers, T. W.; Holmes, A. L.; Berben, L. A. Redox Routes to Substitution of Aluminum(III): Synthesis and Characterization of $(IP^-)_2AlX$ ($IP = \alpha$ -Iminopyridine, $X = Cl, Me, SMe, S_2CNMe_2, CPh, N_3, SPh, NHPPh$). *Inorg. Chem.* **2012**, *51*, 8997-9004.
 20. Summerscales, O. T.; Myers, T. W.; Berben, L. A. Mild Reduction Route to a Redox-Active Silicon Complex: Structure and Properties of $(IP^{2-})_2Si$ and $(IP^-)_2Mg(THF)$ ($IP = \alpha$ -Iminopyridine). *Organometallics* **2012**, *31*, 3463-3465.
 19. Kowolik, K.; Shanmugam, M.; Myers, T. W.; Cates, C. D.; Berben, L. A. A Redox Series of Gallium(III) Complexes: Two-Electron Oxidation Affords a Gallium-thiolate Complex. *Dalton Trans.* **2012**, *41*, 7969-7976. *New Talent North America Special Issue*
 18. Myers, T. W.; Berben, L. A. A Sterically Demanding Iminopyridine Ligand Affords Redox-Active Complexes of Aluminum(III) and Gallium(III). *Inorg. Chem.* **2012**, *51*, 1480-1488. *Highlighted in ACS Virtual Issue*
 17. Rail, M. D.; Berben, L. A. Directing the Reactivity of $[HFe_4(N)(CO)_{12}]^-$ Toward H^+ or CO_2 Reduction by Understanding the Electrocatalytic Mechanism. *J. Am. Chem. Soc.* **2011**, *133*, 18577-18579.
 16. Yee, G. M.; Kowolik, K.; Manabe, S.; Fettinger, J. C.; Berben, L. A. Simple Routes to Bulky, Silyl-Substituted Phenylacetylide Ligands and Examples of V(III), Fe(II), and Mn(II) Complexes *Chem. Commun.* **2011**, *47*, 11690-11682.
 15. Myers, T. W.; Berben, L. A. Counteractions Direct One- or Two-Electron Oxidation of an Al(III) Complex and Al(III)-oxo Intermediates Activate C-H Bonds. *J. Am. Chem. Soc.* **2011**, *133*, 11865-11867. *Highlighted in ACS Virtual Issue*
 14. Kazem, N.;⁺ Myers, T. W.;⁺ Stoll, S.; Britt, R. D.; Shanmugam, M.; Berben, L. A. A Redox Series of Aluminum Complexes: Characterization of Four Oxidation States Including Stabilization of a Triplet, Ligand Biradical State via Exchange Coupling. *J. Am. Chem. Soc.* **2011**, *133*, 8662-8672. ⁺equal contribution. *Highlighted in ACS Virtual Issue*
- 13 publications are available from undergraduate, graduate and postdoctoral work.

PROFESSIONAL ACTIVITIES

Journal Service

- Associate Editor *Chemical Society Reviews*; Royal Society of Chemistry, 2017 – present.
- Advisory Editorial Board *Chemical Communications*; Royal Society of Chemistry, 2012 – present.
- Guest Editor *Inorganic Chemistry* for Virtual issue “Synthetic Chemistry Addressing Challenges in Energy and the Environment” 2018.
- Editorial Board *Chem*, Cell Press, 2016-2018.
- Editorial Board, *Coordination Chemistry Reviews*, 2019 – 2021.
- Advisory Editorial Board *Inorganic Chemistry*; American Chemical Society, 2015 – 2017.
- Guest Editor *Chemical Society Reviews* for special issue on “Earth Abundant Catalysis”, 2019.
- Guest Editor *Chemical Communications* for special issue on "Non-Innocent Ligands" 2014.
- Guest Editor *Chemical Communications* for special issue on "Metal-Mediated Transformations of Small Molecules" 2013.

Professional Service

- Chair-Elect and Chair: Sustainable Energy and Environment Subdivision, Division of Inorganic Chemistry, American Chemical Society, 2018 and 2019.
- Reviewer for DOE-BES Catalysis Science program at PNNL, September 2018.
- ACS National Award Selection Committee, 2019-2021 award cycle.
- Advisory Board Member, DOE EFRC: Alliance for Molecular PhotoElectrode Design for Solar Fuels (AMPED), 2018 - 2020.

- Executive Committee, NSF CCI: Center for Sustainable Use of Renewable Feedstocks. 2013 - 2014.
- *Ad hoc* reviewer for ACS, Wiley, Royal Society of Chemistry, Nature, and Elsevier journals.
- *Ad hoc* grant reviewer for: NSF CHE, NSF ENG, NSF DMREF, NSF HBCU, NSF INTL, ACS PRF, Research Corporation, DOE GFP, DOE BES, Austrian Science Foundation, Netherlands Organization for Scientific Research, American Australian Association, LDRD grants, France-Berkeley Fund, Marie Curie Postdoc Fellowships, Reaxys PhD Prize.
- *Ad hoc* panel reviewer for NSF CHE, and NSF CBET.

Conference Service

- Discussion Leader: Metallocofactors GRC, Newport RI, June 2020.
- Symposium Organizer: Inorganic Chemistry for Sustainable Energy and the Environment, American Chemical Society Meeting in San Diego, with CP Kubiak, August 2019.
- Organizing Committee: 4th Korean-American Kavli Frontiers of Science Meeting, Symposium on Energy Storage, Irvine CA, June 2019.
- Symposium Organizer: Synthetic Chemistry Addressing Challenges in Energy and the Environment, American Chemical Society Meeting New Orleans, with A de Battencourt-Diaz, AL Prieto, March 2018.
- Organizing Committee: 3rd Korean-American Kavli Frontiers of Science Meeting, Symposium on Energy Storage, Irvine CA, June 2017.
- Symposium Organizer: Sustainability in Electrocatalytic Approaches to Chemical and Fuel Production American Chemical Society Meeting in San Francisco CA, with JL Dempsey, April 2017.
- Session Chair, NSF Workshop on Sustainable Chemistry, Washington DC, 2012. Organizer: SL Scott.

Professional Affiliations

- Member of American Chemical Society, 2002 – present.
- Fellow of Royal Society of Chemistry, 2014 – present.
- Member of Royal Australian Chemical Institute, 2000 – present.
- Member of American Association for the Advancement of Science, 2018 - present.
- Member of the Electrochemical Society, 2018 - present.

INVITED PRESENTATIONS (*listed through summer 2019*)

102. 258 th Meeting of the ACS, ACS Award in Pure Chemistry Symposium in honor of Danna Freedman, San Diego, CA	August 2019
101. 258 th Meeting of the ACS, Symposium on Inorganic Chemistry for Sustainable Energy and the Environment Symposium, San Diego, CA	August 2019
100. 258 th Meeting of the ACS, Emerging Research in Synthesis and Catalysis Symposium, San Diego, CA	August 2019
99. 39 th International Conference on Photochemistry, ICP2019, Boulder, CO	July 2019
98. Solar Solutions to Energy and Environmental Problems, Telluride, CO	July 2019
97. Biological and Redox Catalysis, Telluride, CO	July 2019
96. DOE-BES Solar Photochemistry PI Meeting, Gaithersburg, MD	June 2019
95. Université de Paris Sud Campus Scientifique D'orsay	April 2019
94. Collège de France, Paris	April 2019
93. Lavoisier Institut, Versailles	April 2019
92. Université Paris Denis Diderot, Paris 7	April 2019
91. 257 th Meeting of the ACS, Harry Gray Award for Creative Work in Inorganic Chemistry Symposium in honor of Jillian Dempsey, Orlando, FL	April 2019
90. 257 th Meeting of the ACS, Cotton Award for Synthetic Inorganic Chemistry Symposium in honor of Jeffrey Long, Orlando, FL	April 2019
89. 257 th Meeting of the ACS, Through the Lens of Inorganic Chemistry: Understanding	

Heterogeneous Processes in Energy Conversion and Storage, Orlando, FL	April 2019
88. 257 th Meeting of the ACS, Symposium on Small Molecule Activation for Oxidative and Reductive Catalysis, Orlando, FL	April 2019
87. University of Sydney, Australia	March 2019
86. Monash University, Australia	March 2019
85. University of Melbourne, Australia	March 2019
84. Foster Colloquium Lecture, University at Buffalo, Buffalo, NY	November 2018
83. Lawrence Berkeley National Lab/Joint Center for Artificial Photosynthesis, Berkeley CA	November 2018
82. Fall Conference, University of California Santa Cruz, CA, <i>Keynote Speaker</i>	September 2018
81. International Conference on Coordination Chemistry, ICC2018, Sendai Japan	August 2018
80. CCI-Solar Fuels Capstone Meeting, Ventura, CA	July 2018
79. 3rd International Conference on Proton-Coupled Electron Transfer, Blowing Rock, NC	June 2018
78. DOE-BES Solar Photochemistry Meeting, Gaithersburg, MD	June 2018
77. University of Chicago, Chicago, IL	May 2018
76. MIT/Harvard Inorganic Seminar Series Speaker, Cambridge, MA	April 2018
75. University of California San Diego, CA	February 2018
74. Southeast Regional Meeting of the ACS, SERC Symposium: From Photons, Protons, and Electrons to Fuel, Charlotte, NC	November 2017
73. University of North Carolina Chapel Hill, NC	November 2017
72. Control of Electron and Proton Transfers in Redox Catalysis, Telluride, CO	August 2017
71. Royal Australian Chemical Institute Centenary Congress, Melbourne, Australia	July 2017
70. Organometallic Chemistry GRC, Newport, RI	July 2017
69. 3rd Korean-American Kavli Frontiers of Science Symposium, Irvine, CA	June 2017
68. DOE-BES Solar Photochemistry Meeting, Gaithersburg, MD	June 2017
67. 253rd National Meeting of the ACS, Sustainability in Electrocatalytic Chemical and Fuel Production Symposium, San Francisco, CA	April 2017
Declined invitations are listed for 2016/early 2017 during an extended family leave period	
64. University of Virginia, Charlottesville, VA, declined	Spring 2017
65. NSF-CCI Powering the Planet Annual Meeting, Newport Beach, CA, declined	January 2017
64. 5 th Symposium on Advanced Biological Inorganic Chemistry, Kolkata, India, declined	January 2017
63. Main Group Chemistry Symposium, UCLA, <i>Keynote Speaker</i> , Los Angeles, CA, declined	January 2017
62. University of Amsterdam, Amsterdam, NL, declined	September 2016
61. Mellichamp Symposium, University of California Santa Barbara, CA, declined	September 2016
60. Monash Center for Catalysis Inaugural Symposium, Melbourne, Australia, declined	July 2016
59. International Conference on Organometallic Chemistry, ICOMC, Melbourne, Aus, declined	July 2016
58. 42nd International Conference on Coordination Chemistry, Brest, France, declined	July 2016
57. Western Washington University Symposium, <i>Keynote Speaker</i> , Tacoma, WA, declined	July 2016
56. Small Molecule Activation, Telluride, CO, declined	June 2016
55. 10 + 10 Workshop on Sustainable Chemistry, UC Davis – Peking University	May 2016
54. Texas Tech University, Lubbock, TX, declined	March 2016
53. University of Southern California, Los Angeles, CA, declined	March 2016
52. PacificChem. Symposium on Accessing the Full Potential of Redox-Active Ligands: Reactivity and Applications. Honolulu, HI	December 2015
51. PacificChem. Symposium on Metal Coordination Sphere Design for Challenging Molecular Transformations. Honolulu, HI	December 2015
50. University of Notre Dame, Notre Dame, IN	November 2015
49. California State University, San Jose CA	October 2015
48. 250 th National Meeting of the ACS, ACS Catalysis Lectureship Award Symposium to honor the Molecular Electrocatalysis Group at PNNL, Boston, MA	August 2015

47. International Symposium on Inorganic Ring Systems, IRIS14, <i>Keynote Speaker</i> Regensburg, Germany	July 2015
46. 2nd Korean-American Kavli Frontiers of Science Symposium, Jeju Island, South Korea	June 2015
45. 249 th National Meeting of the ACS, Symposium on Natural Resource Capture, Storage and Energy Conversion, Denver, CO	March 2015
44. University of Washington, Seattle, WA	February 2015
43. Stanford University, Palo Alto, CA	November 2014
42. University of California Davis, CA	October 2014
41. Colorado State University, Fort Collins, CO	September 2014
40. 248 th National Meeting of the ACS, Symposium for ACS <i>Organometallics</i> Young Investigator Award, San Francisco, CA	August 2014
39. ISACS, Challenges in Inorganic and Materials Chemistry, <i>Plenary Speaker</i> , Dublin, Ireland	July 2014
38. Bristol University, Bristol, United Kingdom	June 2014
37. Imperial College, London, United Kingdom	June 2014
36. Inorganic Chemistry GRC, Biddeford, ME	June 2014
35. University of California Los Angeles, CA	June 2014
34. University of California Irvine, CA	June 2014
33. Texas A&M University, College Station, TX	April 2014
32. Indiana University, Bloomington, IN	April 2014
31. Purdue University, La Fayette, IN	April 2014
30. 247 th National Meeting of the ACS, Symposium for Rising Star Award of the Women Chemists Committee, Dallas, TX	March 2014
29. 247 th National Meeting of the ACS, Symposium on Molecular Inorganic Chemistry at the Frontiers of Energy Research, Dallas, TX	March 2014
28. University of California Berkeley, CA	February 2014
27. California Institute of Technology, Pasadena, CA	November 2013
26. ACS WRM, Symposium on Small-Molecule Activation and Redox Catalysis with Metal Complexes and Surfaces, Santa Clara, CA	October 2013
25. Organometallic Chemistry GRC, Newport, RI	July 2013
24. 10 + 10 Workshop, University of California Davis-Peking University	April 2013
23. Inorganic Reaction Mechanisms GRC, Galveston, TX	March 2013
22. University of California Santa Barbara, CA	October 2012
21. Sonoma State University, Sonoma, CA	September 2012
20. University of California Davis - Sungkyunkwan University Workshop	August 2012
19. Inorganic Chemistry GRC Poster Talk, Biddeford, ME	June 2012
18. University of the Pacific, Stockton, CA	April 2012
17. 243 rd National Meeting of the ACS, Pure Chemistry Award Symposium to honor Oleg Ozerov, San Diego, CA	March 2012
16. 243 rd National Meeting of the ACS, Organometallic Chemistry Award Symposium to honor Philip Power, San Diego, CA	March 2012
15. Sixteenth Mesilla Chemistry Workshop on Ligand-Based Control of Spin and Reactivity in Metal Complexes, Mesilla, NM	February 2012
14. California Solar Energy Collaborative Symposium	October 2011
13. Organometallics GRC Poster Talk, Newport, RI	July 2011
12. University of California Nanomaterials in Energy and Environment Seminar	May 2011
11. University of Sydney, Australia	July 2010
10. DOE-BES Catalysis Sciences Meeting, Annapolis, MD	June 2010
9. University of California Davis Energy Week Symposium	May 2010
8. PARSEC meeting, University of California Davis	November 2009

7. Monash University, Melbourne, Australia	February 2009
6. University of Adelaide, Adelaide, Australia	February 2009
5. Solar Fuels GRC Poster Talk, Ventura, CA	January 2009
4. University of California Davis, CA	January 2009
3. University of Rochester, Rochester NY	December 2008
2. Pennsylvania State University, State College PA	December 2008
1. Organometallic Chemistry GRS	July 2008

SERVICE ACTIVITY

(a) Department of Chemistry Service Activities

- Chair, UC Davis Inorganic Chemistry Symposium, 2019-2020
- Graduate Admissions Committee, 2010-2019
- Stockroom Reorganization Committee, 2019 - 2020
- CHE4 Curriculum Committee, 2018-2020
- Space Committee, 2012-2015, 2017-2020
- Faculty Search Committee, Inorganic Chemistry, 2016-2017
- Faculty Search Committee, Theoretical Chemistry, 2014-2015
- Undergraduate Affairs Committee, 2016 - 2018
- Department of Chemistry Vision Committee, 2013-2014
- Larock Undergraduate Research Conference Committee, 2014-2015
- Faculty Mentor for Undergraduate Chemistry Club, 2009-2011
- Departmental Instrument Facilities Committee, 2009-2014
- Seminar Committee, 2009-2013, 2016-present
- Safety Committee, 2012-2014, 2017-2018

(b) College of Letters and Sciences Service Activities

- Chemistry Department Representative to College of Letters and Sciences Assembly; 2013-2014.
- Reviewer for Limited Submissions proposals, 2015 - 2019.

(c) University Service Activities

- Graduate Council's Program Review Subcommittee, 2017-2018.
- Graduate Council's Student Support Subcommittee, 2014-2015.
- Current Space Conditions in Chemistry Working Group, 2014.
- Chemistry Department Representative to UC Davis Academic Senate, 2012-2013, 2016-2017.
- Faculty Advisory Committee for Provost Undergraduate Fellowship, 2012-2014.
- Faculty judge, Interdisciplinary Graduate Participation in Sciences Conference, 2012.
- Seminar Series Chair for UC Davis Energy Institute Spring Public Seminar Series, 2011.

OUTREACH ACTIVITY

- Faculty Mentor, First Generation Initiative, UC Davis, 2016-present.
- Research mentor and senior participant for NSF-REU program at UC Davis, 2011-present.
- Research mentor for high school students from ACS SEED program at UC Davis, 2013-present.
- Faculty Mentor, Prytanean Women's Honor Society, 2018.
- Faculty Mentor, Women in Mathematical & Physical Sciences UC Davis, 2014 – present.
- Faculty Mentor, ChemWMN National Chemistry Mentoring Network, 2015 – present.
- Research mentor to undergraduate students from MURPPS program (minority undergraduate research participation in the physical sciences); 2010-2012.

- Research mentor to undergraduate students from the UC LEADS program (UC Leadership Excellence through Advanced Degrees), for students from disadvantaged backgrounds; 2011-2014.