

## **CURRICULUM VITAE: *Kevin D. Moeller***

### **Name and Address**

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### **Personal**

Birth - Scranton, Pennsylvania (November 25, 1958)  
Married - Tracy Anne Jeffras (August 30, 1980)  
Children - Jason Nathaniel (September 20, 1986)  
            Kimberly Nicole (August 2, 1988)

### **Education**

NIH Postdoctoral Fellow, Organic Synthesis, 1985-1987  
Advisor: Professor Barry M. Trost  
University of Wisconsin, Madison

Ph.D., Organic Chemistry, September 1985  
Advisor: Professor R. Daniel Little  
University of California, Santa Barbara

B.A., Chemistry, June 1980  
University of California, Santa Barbara

September 1976 - June 1978: Attended L.A. Pierce College in  
Woodland Hills, CA.

### **Employment Record**

NSF Division of Chemistry Program Director, Chemical Synthesis and Chemical Structure, Dynamics, and Mechansim B, September 2016 – August 2018/ Program Lead for Chemical Synthesis 2017-2018.

Professor of Chemistry, Washington University in St. Louis, July 1999 - present

Member - Division of Biology and Biomedical Sciences, Washington University in St. Louis, Sept. 1991 - present

Associate Professor of Chemistry, Washington University in St. Louis, July 1993 - June 1999

Assistant Professor of Chemistry, Washington University in St. Louis, August, 1987- June, 1993

### **Awards, Honors, and Service**

ACS Arthur C. Cope Scholar Late Stage Career Award. September 2020

ACS Midwest Award. October 2019

Co-guest editor of a special addition of Chemical Reviews on Organic Electrochemistry. 2018.

Co-organizer for: "Electron Transfer in Chemistry". Held in conjunction with the Spring 2018 Meeting of The Electrochemical Society – Division of Organic and Biological Electrochemistry, Seattle, WA. May 13-18, 2018.

Manuel M. Baizer Award for Contributions to Organic Electrochemistry: Division of Organic and Biological Electrochemistry, The Electrochemical Society. Spring 2016.

Washington University in St. Louis "Unsung Hero Award" for contributions to Undergraduate Education – May 2014

Washington University Arts and Sciences Council Award for Excellence in Research – April 2014

NSF-Panel Organic Synthesis, February 2014

NSF-Panel, March 2014

NSF-Panel, March 2013

NSF-Panel for Career Awards in Organic Synthesis. November 2012

NSF-Panel for Career Awards in Organic Synthesis. October 2010.

Co-organizer for: "Green Electrochemistry". Held in conjunction with the PACIFICHEM meeting in Honolulu, HI. December 2010

Member of the Executive Committee for the Organic and Biological Electrochemistry Division of The Electrochemical Society 2006-present.

Co-organizer for: "New Frontiers in Synthetic and Mechanistic Organic Electrochemistry". Held in conjunction with the Fall 2008 PRIME meeting between The Electrochemical Society and The Electrochemical Society of Japan – Division of Organic and Biological Electrochemistry, Honolulu, Hawaii. October 12-17, 2008.

Co-organizer for: "New Developments in Synthetic and Mechanistic Organic Electrochemistry". Held in conjunction with the Spring 2008 Meeting of The Electrochemical Society – Division of Organic and Biological Electrochemistry, Phoenix, Arizona. May 18-22, 2008. Served as Editor for the ECS Transactions volume published on the meeting.

NSF Chemistry Division - SBIR review panel. July 2007

Co-organizer for: "New Developments in Synthetic and Mechanistic Organic Electrochemistry". Held in conjunction with the Fall 2004 meeting of The Electrochemical Society – Division of Organic and Biological Electrochemistry, Honolulu, Hawaii. October 4-5, 2004.

Washington University Student Union – College of Arts and Sciences Professor of the Year 2001

Member – Selection Committee for the ACS Bioorganic Chemistry Award 1998-2000

Co-organizer for: “New Concepts and Methodologies for Organic Electrochemistry”. Held in conjunction with the Fall 1999 meeting of The Electrochemical Society - Division of Organic and Biological Electchemistry, Honolulu, Hawaii. October 17-22, 1999.

Member – Selection Committee for the Fourth International Manuel M. Baizer Award - 1999

State of Texas, Robert A. Welch Lecturer - 1999

Named one of Los Angeles Pierce College’s “50 Most Outstanding Alumni”. April 1998.

Symposium Organizer for the “Third International Manuel M. Baizer Award Symposium on Organic Electrochemistry”. Held in conjunction with the 193rd meeting of The Electrochemical Society, San Diego, California. May 3-8, 1998.

Member of the International Science Advisory Board for the 3rd International Symposium on Electroorganic Synthesis - Kurashiki, Japan, 1997.

American Chemical Society’s “St. Louis Award”, 1997

Symposium Organizer for: “Biology and Electrochemistry: An Emerging Interface”. Held in conjunction with the Spring 1997 meeting of The Electrochemical Society - Division of Organic and Biological Electrochemistry, Montreal, Canada. May 7-9, 1997.

NIH - Bioorganic and Natural Products Special Study Section Member. November 1996

NSF Chemistry Division - SBIR review panel. September 1996

NSF Chemistry Division - SBIR review panel. September 1995

Member of the International Science Advisory Board for the 2nd International Symposium on Electroorganic Synthesis - Kurashiki, Japan, Sept. 27-30, 1994.

Co-organizer for a Symposium Honoring Professor T. Shono. Held in conjunction with the Spring 1994 meeting of The Electrochemical Society - Division of Organic and Biological Electrochemistry, San Francisco, California.

*Honorary Member, Alpha Epsilon Delta (the National Pre-Medical Honor Society)  
Elected, Member of the Missouri Beta Chapter of the PreMedical Society for contributions to pre-Medical education at Washington University, April 1994.*

*Pew Faculty Development Award, 1990*

NIH Postdoctoral Fellowship  
October 1985 - July 1987

B.R. Baker Memorial Award for Graduate Studies in Chemistry.  
University of California, Santa Barbara, 1985

Outstanding Graduating Senior in Chemistry at the University of California, Santa Barbara, 1980

Lockheed Management Club Scholarship Award  
Lockheed California Company, 1979-1980

## Research Interests

Synthetic organic chemistry; electrochemistry; new synthetic methodology involving highly reactive radical ion intermediates; application of coupled electrochemical-chemical reaction strategies for the synthesis of complex organic molecules; the design and synthesis of targeted chemical probes for biological receptors; the development of synthetic methods for spatially isolating chemical reactions at pre-selected sites on semiconducting chips that contain microarrays of addressable electrodes; developing addressable libraries and analytical tools for monitoring small molecule – receptor interactions in "real-time" .

## Current Support

**Title:** "Intramolecular Anodic Olefin Coupling Reactions"

**Agency:** NSF (CHE-1764449)

**Role:** PI

**Period:** 7/1/18 to 6/30/21

**Budget:** \$ 480,000 (total)

**Summary:** The work funded with this grant seeks to explore and capitalize on the unique chemistry of enol ether, ketene acetal, and aryl based radical cations. Both new synthetic methodology and physical organic chemistry based studies are being pursued.

**Title:** "Pharmacological Targeting of G-Alpha Subunits in Disease"

**Agency:** NIH (R01GM124093)

**Role:** co-PI with Professor Ken Blumer of the WUStL School of Medicine

**Period:** 8/1/17 to 6/30/21

**Budget:** \$ 1,787,873 (total)/ (\$ 602,070 to the Moeller group)

**Summary:** The work funded with this grant is examining the synthesis and biological activity of a series of cyclic peptide derivatives that target the Gq signaling pathway.

**Title:** "New Methods for the Synthesis and Analysis of Addressable Molecular Libraries"

**Agency:** NIH (R01GM122747-01A1)

**Role:** PI

**Period:** 5/1/18 to 2/28/22

**Budget:** \$ 1,098,000 (total)

**Summary:** The work funded with this grant is developing the synthetic and analytical procedures needed to fully capitalize on the use of microelectrode arrays as tools for monitoring the binding of small molecule libraries to biological targets.

## Publications

1. "Consequences of Intramolecular Diyl Trapping Reactions Using Unactivated Diyllophiles. A Short, Convergent Synthesis of Hirsutene." R. Daniel Little, Richard G. Higby, and Kevin D. Moeller *J. Org. Chem.* **1983**, *48*, 3139-3140.
2. "Asymmetric Induction in the Intramolecular 1,3-Diyl Trapping Reaction Through the Use of Menthyl and 8-Phenylmenthyl Esters. An Unexpected Result." R. Daniel Little and Kevin D. Moeller *J. Org. Chem.* **1983**, *48*, 4487-4492.

3. "Intramolecular 1,3-Diyl Trapping Reactions: Use of a Diylophile Directly Linked to the Diyl. Preparation of Bicyclic Furans." R. Daniel Little and Kevin D. Moeller *Tetrahedron Lett.* **1985**, 26, 3417-3420.
4. "Intramolecular 1,3-Diyl Trapping Reactions: Total Synthesis of (+)-Hypnophillin and (+)-Coriolin. Formation of Trans Fused Bicyclo[3.3.0] Ring Systems." R. Daniel Little, Luc Van Hijfte, Jeffrey L. Peterson, and Kevin D. Moeller *J. Org. Chem.* **1987**, 52, 4647-4661.
5. "A [3 + 2] Cycloaddition Strategy to the Phyllanthocin Ring System." Barry M. Trost and Kevin D. Moeller *Heterocycles* **1989**, 28, 321-331.
6. "Electrochemical Amide Oxidations in the Presence of Monomethoxylated Phenyl Rings. An Unexpected Relationship Between the Chemoselectivity of the Oxidation and the Location of the Methoxy Substituent." Kevin D. Moeller, Sharif Tarazi, and Mohammad R. Marzabadi *Tetrahedron Lett.* **1989**, 30, 1213-1216.
7. "Oxidative Organic Electrochemistry: A Novel Intramolecular Coupling of Electron Rich Olefins." Kevin D. Moeller, Mohammad R. Marzabadi, Michael Y. Chiang, Dallas G. New and Shari Keith *J. Am. Chem. Soc.* **1990**, 112, 6123-6124.
8. "Anodic Amide Oxidations in the Presence of Electron Rich Phenyl Rings: Evidence for an Intramolecular Electron Transfer Mechanism." Kevin D. Moeller, Po W. Wang, Sharif Tarazi, Mohammad R. Marzabadi, and Poh Lee Wong. *J. Org. Chem.* **1991**, 56, 1058-1067.
9. "Anodic Amide Oxidations: A Convenient Procedure for Annulating Six and Seven Membered Rings Onto Amines." Kevin D. Moeller, Scott L. Rothfus, and Poh Lee Wong *Tetrahedron (Symposia-in-Print Number 42)* **1991**, 47, 583-592. (Invited)
10. "Intramolecular Anodic Olefin Coupling Reactions: The Use of Allylsilanes." Kevin D. Moeller and Christine M. Hudson *Tetrahedron Lett.* **1991**, 32, 2307-2310.
11. "Oxidative Organic Electrochemistry: Intramolecular Enol Ether Coupling Reactions." Kevin D. Moeller and Luzviminda V. Tino In *Electroorganic Synthesis-Festschrift in Honor of Manuel M. Baizer*, Ed. Little, R.D.; Weinberg, N.L., Marcel Dekker, Inc., New York, 1991, pp. 153-160. (Invited)
12. "Intramolecular Anodic Olefin Coupling Reactions: A Useful Method for CarbonCarbon Bond Formation." Christine M. Hudson, Mohammad R. Marzabadi, Kevin D. Moeller, and Dallas G. New *J. Am. Chem. Soc.* **1991**, 113, 7372-7385.
13. "Anodic Enol Ether Coupling Reactions: A Novel Route for the Construction of Cyclic 1,4-Dicarbonyl Equivalents." Kevin D. Moeller and Luzviminda V. Tino *J. Am. Chem. Soc.* **1992**, 114, 1033-1041.
14. "Factors Affecting Regioselectivity in the Intramolecular Diyl Trapping Reaction." R. Daniel Little, Mohammad R. Masjedizadeh, Kevin D. Moeller, and Ingeborg Dannecker-Doerig *Synlett* **1992**, 2, 107-113.
15. "Conformationally Constrained Thyroliberin Analogs: A Novel Electrochemical Route to a Key Rigid Pro-Phe Building Block." Kevin D. Moeller and Scott L. Rothfus. *Tetrahedron Lett.* **1992**, 33, 2913-2916.
16. "Anodic Amide Oxidations: A Total Synthesis of the Angiotensin-Converting Enzyme Inhibitor A58365A." Kevin D. Moeller and Poh Lee Wong. *Bioorg. Med. Chem. Lett.* **1992**, 2(7), 739-742.
17. "Reductive Routes to Rigid Peptide Analogs: The Dependence of a Chemoselective Imide Reduction on the Nature of an  $\alpha$ -Alkoxy Substituent." Kevin D. Moeller and Cathleen E. Hanau. *Tetrahedron Lett.* **1992**, 33, 6026-6029.
18. "Anodic Amide Oxidations: The Synthesis of Two Spirocyclic L-Pyroglutamide Building Blocks." Kevin D. Moeller and Lawrence D. Rutledge. *J. Org. Chem.* **1992**, 57, 6360-6363.
19. "Intramolecular Anodic Olefin Coupling Reactions: The Use of Allyl- and Vinylsilanes in the Construction of Quaternary Carbons." Kevin D. Moeller, Christine M. Hudson, and Luzviminda V. Tino-Wooldridge. *J. Org. Chem.* **1993**, 58, 3478-3479.
20. "Anodic Amide Oxidations: The Total Syntheses of (-)-A58365A and (++)-A58365B." Poh Lee Wong and Kevin D. Moeller *J. Am. Chem. Soc.* **1993**, 115, 11434-11445.
21. "The Use of HMQC-TOCSY Experiments for Elucidating the Structures of Bicyclic Lactam Peptide Mimetics: Uncovering a Surprise Rearrangement in the Synthesis of a Key Pro-Phe

- Building Block." Kevin D. Moeller, Cathleen E. Hanau, and André d'Avignon. *Tetrahedron Lett.* **1994**, 35, 835-838.
22. "Intramolecular Anodic Olefin Coupling Reactions and the Use of Vinylsilanes: Evidence for a Reversible Radical Type Mechanism." Christine M. Hudson and Kevin D. Moeller. *J. Am. Chem. Soc.* **1994**, 116, 3347-3356.
  23. "Intramolecular Anodic Olefin Coupling Reactions: A New Approach to the Synthesis of Angularly Fused Tricyclic Enones." Luzviminda V. Tiniao-Wooldridge, Kevin D. Moeller, and Christine M. Hudson. *J. Org. Chem.* **1994**, 59, 2381-2389.
  24. "Intramolecular Anodic Olefin Coupling Reactions: Initial Studies Concerning the Use of Electron-Rich Aryl Rings." Kevin D. Moeller and Dallas G. New. *Tetrahedron Lett.* **1994**, 35, 2857-2860.
  25. "Application of HMBC and HMQC-TOCSY NMR Methods to Assign the Structure of Bicyclic-Peptide Mimetics." D. Andre' d'Avignon, Cathleen E. Hanau, Yvette M. Fobian, and Kevin D. Moeller. *Coordination Chem.* **1994**, 32, 135-144. (Invited)
  26. "Anodic Amide Oxidations: Conformationally Restricted Peptide Building Blocks From the Direct Oxidation of Dipeptides." Fabrice Cornille, Yvette M. Fobian, Urszula Slomczynska, Denise D. Beusen, Garland R. Marshall, and Kevin D. Moeller. *Tetrahedron Lett.* **1994**, 35, 6989-6992.
  27. "Intramolecular Anodic Olefin Coupling Reactions: The Use of Furans." Kevin D. Moeller and Zerom Tesfai. *J. Electrochem. Soc. Jpn. (Denki Kagaku)* **1994**, 62, 1115-1118. (Invited)
  28. "Electrochemical Cyclization of Dipeptides toward Novel Bicyclic, Reverse-Turn Peptidomimetics. 1. Synthesis and Conformational Analysis of 7,5-Bicyclic Systems." Fabrice Cornille, Urszula Slomczynska, Mark L. Smythe, Denise D. Beusen, Kevin D. Moeller, and Garland R. Marshall. *J. Am. Chem. Soc.* **1995**, 117, 909-917.
  29. "New Advances in the Intramolecular Trapping of Anodically Generated Radical Cations." Zerom Tesfai, Dallas G. New, and Kevin D. Moeller. In *Novel Trends in Electroorganic Synthesis* Ed. Torii, S.; Kodansha, Tokyo, 1995, pg. 17-20. (Invited)
  30. "Anodic Amide Oxidations: New Routes to Conformationally Restricted Peptide Mimetics." Fabrice Cornille, Yvette M. Fobian, Wenhao Li, Urszula Slomczynska, Denise D. Beusen, Garland R. Marshall, and Kevin D. Moeller. In *Novel Trends in Electroorganic Synthesis* Ed. Torii, S.; Kodansha, Tokyo, 1995, pg. 317-320. (Invited)
  31. "Conformationally Restricted Peptide Mimetics: The Incorporation of 6,5-Bicyclic Lactam Ring Skeletons Into Peptides." Wenhao Li, Cathleen E. Hanau, André d'Avignon, and Kevin D. Moeller. *J. Org. Chem.* **1995**, 60, 8155-8170.
  32. "Electrochemical Cyclization of Dipeptides for Form Novel Bicyclic, Reverse-turn Peptidomimetics: II. Synthesis and Conformational Analysis of 6,5-Bicyclic Systems." Slomczynska, U.; Chalmers, D. K.; Cornille, F.; Smythe, M. L.; Beusen, D. D.; Moeller, K. D.; Marshall, G. R. *J. Org. Chem.* **1996**, 61, 1198-1204.
  33. "Intramolecular Anodic Olefin Coupling Reactions and the Use of Electron Rich Aryl Rings." Dallas G. New, Zerom Tesfai, and Kevin D. Moeller. *J. Org. Chem.* **1996**, 61, 1578-1598.
  34. "New Routes to Conformationally Restricted Peptide Building Blocks: A Convenient Preparation of Bicyclic Piperazinone Derivatives." Yvette M. Fobian, D. Andre d'Avignon, Kevin D. Moeller. *Bioorg. Med. Chem. Lett.* **1996**, 6, 315-318.
  35. "Conformationally Restricted TRH Analogs: A Probe for the Pyroglutamate Region." Lawrence D. Rutledge, Jeffery H. Perlman, Marvin C. Gershengorn, Garland R. Marshall, and Kevin D. Moeller. *J. Med. Chem.* **1996**, 39, 1571-1574.
  36. "Restricted Analogs Delineate the Biologically Active Conformation of Thyrotropin-Releasing Hormone." Liisa Laakkonen, Wenhao Li, Jeffrey H. Perlman, Frank Guarnieri, Roman Osman, Kevin D. Moeller, and Marvin C. Gershengorn. *Mol. Pharmacol.* **1996**, 49, 1092-1096.
  37. "Conformationally Restricted TRH Analogs: The Compatibility of a 6,5-Bicyclic Lactam Based Mimetic with Binding to TRH-R." Wenhao Li and Kevin D. Moeller. *J. Am. Chem. Soc.* **1996**, 118, 10106-10112.

38. "Anodic Electrochemistry and the Use of a 6-Volt Lantern Battery: A Simple Method for Attempting Electrochemically Based Synthetic Transformations." Dean A. Frey, Nicholas Wu, and Kevin D. Moeller. *Tetrahedron Lett.* **1996**, *37*, 8317-8320.
39. "Intramolecular Carbon-Carbon Bond Forming Reactions at the Anode." Kevin D. Moeller. *Topics in Current Chemistry* **1997**, *185*, 49-86. (Invited)
40. "Conformational Studies and Stereochemical Assignment of a Bicyclic Lactam Containing Peptide Fragment by Two-Dimensional NMR Spectroscopy." Jeff Kao, Wenhao Li, and Kevin D. Moeller. *Magnetic Resonance in Chemistry* **1997**, *35*, 267-272.
41. "Intramolecular Anodic Olefin Coupling Reactions: The Use of an Allylic Alkoxy Group for Controlling Relative Stereochemistry." Dean A. Frey, Jeffery A. Marx, and Kevin D. Moeller. *Electrochim. Acta* **1997**, *42*, 1967-1970. (Invited)
42. "Intramolecular Anodic Olefin Coupling Reactions." Kevin D. Moeller. *Proc. Electrochem. Soc.: Fundamentals and Potential Applications of Electrochemical Synthesis* **1997**, *6*, 13-24. (Invited)
43. "Conformationally Constrained Peptide Mimetics: The Use of a Small Lactam Ring as an HIV-1 Antigen Constraint." Robert D. Long and Kevin D. Moeller. *J. Am. Chem. Soc.* **1997**, *119*, 12394-12395.
44. "Anodic Electrochemistry: Recent Advances in the Total Synthesis of Complex Organic Molecules." Kevin D. Moeller, Dean Frey, Laura Matson-Beal, Santhaparam H. K. Reddy, and Yunsong Tong. In *Novel Trends in Electroorganic Synthesis* Ed. S. Torii; Springer, Tokyo, 1998, pg. 51-54. (Invited)
45. "A Sequential Electrochemical Oxidation - Olefin Metathesis Strategy for the Construction of Bicyclic Lactam Based Peptidomimetics." Laura M. Beal and Kevin D. Moeller. *Tetrahedron Lett.* **1998**, *39*, 4639-4642.
46. "Conformational Probes for Elucidating the Nature of Substance P Binding to the NK<sub>1</sub> Receptor: Initial Efforts to Map the Phe<sup>7</sup>-Phe<sup>8</sup> Region. Yunsong Tong, Yvette M. Fobian, Meiye Wu, Nicholas A. Boyd, and Kevin D. Moeller. *Bioorg. Med. Chem. Lett.* **1998**, *8*, 1679-1682.
47. "Intramolecular Anodic Olefin Coupling Reactions: The Construction of Bridged Bicyclic Ring Skeletons." S. Hari Krishna Reddy and Kevin D. Moeller. *Tetrahedron Lett.* **1998**, *39*, 8027-8030.
48. "Thyrotropin Releasing Hormone Analogs: A Building Block Approach to the Construction of Tetracyclic Peptidomimetics." Wenhua Chu, Jeffrey H. Perlman, Marvin C. Gershengorn, and Kevin D. Moeller. *Bioorg. Med. Chem. Lett.* **1998**, *8*, 3093-3096.
49. "Anodic amide oxidations: developing a systematic approach for probing peptide-protein interactions." Kevin D. Moeller In *Clean Effic. Process.: Electrochem. Technol. Synth., Sep., Recycle, Environ. Improv., Int. Forum, Electrolysis Chem. Ind.* Vol. 12, Electrosynthesis, Lancaster; N. Y., 1998, 115-134. (invited).
50. "The Synthesis of Bicyclic Piperazinone and Related Derivatives." Yvette M. Fobian and Kevin D. Moeller. *Methods in Mol. Med.* **1999**, *23 (Peptidomimetic Protocols)*, 259-279. (Invited)
51. "Intramolecular Anodic Olefin Coupling Reactions and the Use of Allylsilane Coupling Partners with Allylic Alkoxy Groups." Dean A. Frey, S. Hari Krishna Reddy, Nicholas Wu, and Kevin D. Moeller. *J. Org. Chem.* **1999**, *64*, 2805-2813.
52. "The Synthesis of Bicyclic Lactam Based His-Pro Building Blocks: The Effect of Substituent Polarity on an Intramolecular Bond Migration." Wenhua Chu and Kevin D. Moeller. *Tetrahedron Lett.* **1999**, *40*, 7939.
53. "Conformationally Constrained Substance P Analogs: The Total Synthesis of a Constrained Peptidomimetic for the Phe<sup>7</sup>-Phe<sup>8</sup> Region." Yunsong Tong, Yvette M. Fobian, Meiye Wu, Norman D. Boyd, and Kevin D. Moeller. *J. Org. Chem.* **2000**, *65*, 2484.
54. "Anodic Amide Oxidation/ Olefin Metathesis Strategies: Developing A Unified Approach to the Synthesis of Bicyclic Lactam Peptidomimetics." Laura M. Beal, Bin Liu, Wenhua Chu, and Kevin D. Moeller. *Tetrahedron (Symposium in Print)* **2000**, *56*, 10113. (Invited)

55. "Reversing the Polarity of Enol Ethers: An Anodic Route to the Synthesis of Furan and Pyran Rings." Angela Sutterer and Kevin D. Moeller. *J. Am. Chem. Soc.* **2000**, 122, 5636.
56. "Constrained Peptidomimetics for TRH: Cis-Peptide Bond Analogs." Yunsong Tong, Jacek Olczak, Janusz Zabrocki, Marvin C. Gershengorn, Garland R. Marshall, and Kevin D. Moeller. *Tetrahedron (Symposium in Print)* **2000**, 56, 9791. (Invited)
57. "Synthetic Applications of Anodic Electrochemistry." Kevin D. Moeller. *Tetrahedron* **2000**, 56, 9527. (Invited)
58. "Building Constrained Peptidomimetics: An Approach to 5-Vinyl-3-Phenyl Substituted Proline Derivatives" Shengquan Duan and Kevin D. Moeller. *Tetrahedron (Symposium in Print)* **2001**, 57, 6407. (Invited)
59. "Anodic Oxidations of Electron-Rich Olefins: Radical Cation Based Approaches to the Synthesis of Bridged Bicyclic Ring Skeletons." S. Hari Krishna Reddy, Kazuhiro Chiba, Yongmao Sun, and Kevin D. Moeller. *Tetrahedron (Symposia-in Print)* **2001**, 57, 5183. (Invited)
60. "Anodic Cyclization Reactions: Reversing the Polarity of Ketene Dithioacetal Groups." Yongmao Sun, Bin Liu, Jeff Kao, D. Andre' d'Avignon, and Kevin D. Moeller. *Org. Lett.* **2001**, 3, 1729.
61. "Anodic Coupling Reactions: Probing the Stereochemistry of Tetrahydrofuran Formation. A Short, Convenient Synthesis of Linalool Oxide" Shengquan Duan and Kevin D. Moeller. *Org. Lett.* **2001**, 3, 2685.
62. "Anodic Oxidation Reactions: The Total Synthesis of (+)-Nemorensic Acid" Bin Liu and Kevin D. Moeller. *Tetrahedron Lett.* **2001**, 42, 7163.
63. "Anodic Electrochemistry: Studies Toward the Effective Use of Radical Cations in Synthesis." Kevin D. Moeller, Bin Liu, S. Hari Krishna Reddy, Haizhou Sun, Yongmao Sun Angela Sutterer, and Kazuhiro Chiba. *Proceedings - Electrochemical Society* **2001**, 65-68.
64. "Conformationally Restricted TRH Analogs: Constraining the Pyroglutamate Region." Jill C. Simpson, Chris Ho, E. F. Berkley Shands, Marvin C. Gershengorn, Garland R. Marshall, and Kevin D. Moeller. *Bioorganic and Medicinal Chemistry* **2002**, 10, 291.
65. "Silyl Substituted Amino Acids: New Routes to the Construction of Selectively Functionalized Peptidomimetics." Haizhou Sun and Kevin D. Moeller *Org. Lett.* **2002**, 4, 1547.
66. "Anodic Cyclization Reactions: Capitalizing on an Intramolecular Electron Transfer to Trigger the Synthesis of a Key Tetrahydropyran Building Block." Shengquan Duan and Kevin D. Moeller. *J. Am. Chem. Soc.* **2002**, 124, 9368-9369.
67. "Oxidative Cyclization Based on Reversing the Polarity of Enol Ethers and Ketene Dithioacetals. Construction of Tetrahydrofuran Rings and Application to the Synthesis of (+)-Nemorensic Acid." Bin Liu, Shengquan Duan, Angela C. Sutterer, and Kevin D. Moeller. *J. Am. Chem. Soc.* **2002**, 124, 10101.
68. "Anodic Oxidation Reactions, Involving Ketene Dithioacetals: Evidence for a "Radical-type" Cyclization." Yongmao Sun and Kevin D. Moeller *Tetrahedron Lett.* **2002**, 43, 7159.
69. "Organic Electrochemistry as a Tool for Synthesis: Umpolung Reactions, Reactive Intermediates, and the Design of New Synthetic Methods." R. Daniel Little and Kevin D. Moeller *The Electrochemical Society – Interface* **2002**, 11(4), 36.
70. "Anodic Cyclization Reactions: The Total Synthesis of Alliacol A." John Mihelcic and Kevin D. Moeller. *J. Am. Chem. Soc.* **2003**, 125, 36.
71. "Building Functionalized Peptidomimetics: New Electroauxiliaries and the Use of a Chemical Oxidant for Introducing N-Acyliminium Ions into Peptides." Haizhou Sun and Kevin D. Moeller. *Organic Letters* **2003**, 5, 3189.
72. "Constrained Peptidomimetics: Building Bicyclic Analogs of Pyrazoline Derivatives." Bin Liu, John D. Brandt, and Kevin D. Moeller. *Tetrahedron* **2003**, 59, 8515.
73. "The Electrochemistry of Nitrogen Containing Compounds." Kevin D. Moeller. *Encyclopedia of Electrochemistry Vol 8*, Schäfer, H. J., Ed. Wiley/Verlag Chemie; **2004**, 277-312.
74. "Building Addressable Libraries: The Use of Electrochemistry for Generating Reactive Pd(II) Reagents at Pre-Selected Sites on a Chip." Eden Tesfu, Karl Maurer, Steven R. Ragsdale, and Kevin D. Moeller. *J. Am. Chem. Soc.* **2004**, 126, 6212-6213.

75. "Oxidative Cyclizations: The Asymmetric Synthesis of (-)-Alliacol A." John Mihelcic and Kevin D. Moeller. *J. Am. Chem. Soc.* **2004**, 126, 9106-9111.
76. "Anodic Electrochemistry and the Use of Electroauxiliaries for Post-Synthetically Modifying Peptides." Haizhou Sun and Kevin D. Moeller. In *Analytical, Mechanistic, and Synthetic Organic Electrochemistry (The Sixth International Manuel M. Baizer Symposium)*(J. Lessard, P. Hapiot, and I. Taniguchi, Editors) *Proc. Electrochemical Society* **2004**, 10, 125-132.
77. "Anodic Coupling Reactions: The Use of N,O-Ketene Acetal Coupling Partners." Yung-tzung Huang and Kevin D. Moeller. *Organic Letters* **2004**, 6, 4199-4202.
78. "Building Addressable Libraries: The Use of Electrochemistry for Spatially Isolating a Heck Reaction on a Chip." Jun Tian, Karl Maurer, Eden Tesfu, and Kevin D. Moeller. *J. Am. Chem. Soc.* **2005**, 127, 1392-1393.
79. "Oxidative Cyclization Reactions: Amide Trapping Groups and the Synthesis of Furanones." John D. Brandt and Kevin D. Moeller *Org. Lett.* **2005**, 7, 3553-3556.
80. "Electrochemically Assisted Heck Reactions." Jun Tian and Kevin D. Moeller. *Org. Lett.* **2005**, 7, 5381-5384.
81. "Anodic Cyclization Reactions: Probing the Chemistry of Ketene Acetal Radical Cations." Yung-tzung Huang and Kevin D. Moeller. *Tetrahedron (Symposium in Print)* **2006**, 62, 6536-6550.
82. "Oxidative Cyclizations and the Synthesis of Lactones: A Streamlined Synthesis of *epi*-Crobarbatic Acid." John D. Brandt and Kevin D. Moeller *Heterocycles* **2006**, 67, 621-628.
83. "Building Addressable Libraries: Site Selective Coumarin Synthesis and the "Real-Time" Signaling of Antibody-Coumarin Binding." Eden Tesfu, Kris Roth, Karl Maurer, and Kevin D. Moeller. *Org. Lett.* **2006**, 8 709-712.
84. "Building Addressable Libraries: Spatially Isolated, Chip-Based Reductive Amination Reactions." Eden Tesfu, Karl Maurer, and Kevin D. Moeller *J. Am. Chem. Soc.* **2006**, 128, 70-71.
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94. "Building Addressable Libraries: A Site-Selective Allylic Alkylation Reaction" Jun Tian, Karl Maurer, and Kevin D. Moeller. *Tetrahedron Lett.* **2008**, *49*, 5664.
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111. "Anodic Coupling Reactions: Exploring the Generality of Curtin-Hammett Controlled Reactions." Alison Redden and Kevin D. Moeller. *Org. Lett.* **2011**, *13*, 1678.
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131. "Toward the Selective Inhibition of G Proteins: Total Synthesis of a Simplified YM-254890 Analog." Derek T. Rensing, Sakshi Uppal, Kendall J. Blumer, and Kevin D. Moeller. *Org. Lett.* **2015**, *17*, 2270-2273. DOI: 10.1021/acs.orglett.5b00944
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146. "Using Physical Organic Chemistry to Shape the Course of Electrochemical Reactions." Kevin D. Moeller. *Chem. Rev.* **2018**, *118*, 4817-4833. DOI: 10.1021/acs.chemrev.7b00656.
147. "Organic Electrochemistry and a Role Reversal: Using Synthesis to Optimize Electrochemical Methods." Nai-Hua Yeh, Matthew Medcalf, and Kevin D. Moeller *J. Am. Chem. Soc.* **2018**, *140*, 7395-7398. DOI: 10.1021/jacs.8b02922.
148. "Introduction: Electrochemistry: Technology, Synthesis, Energy, and Materials." R. Daniel Little and Kevin D. Moeller. *Chem. Rev.* **2018**, *118*, 4483-4484.
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## Patents

1. Moeller, Kevin D.; Tesfu, Eden; Maurer, Karl. "Process for performing an isolated Pd(II)-mediated oxidation reaction". U.S. Pat. Appl. Publ. (2006), Cont.-in-part of U.S. Ser. No. 63,402. CODEN: USXXCO US 2006205959 A1 20060914 AN 2006:952843.
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3. Tian, Jun; Maurer, Karl; Moeller, Kevin, D.; Tesfu, Eden. "Process for performing an isolated Pd(0) catalyzed reaction electrochemically on an electrode array device". PCT Int. Appl. (2006), 14 pp. CODEN: PIXXD2 WO 2006074335 A2 20060713 CAN 145:131836 AN 2006:673955.
4. Tian, Jun; Moeller, Kevin D.; Wood, Sarah; Maurer, Karl. "Process for transition metal-catalyzed electrochemical allylic alkylation on an electrode array device." U.S. Pat. Appl. Publ. (2008), 24pp., Cont.-in-part of U.S. Ser. No. 326,717. CODEN: USXXCO US 2008039342 A1 20080214.
5. Stuart, Melissa; Maurer, Karl; Moeller, Kevin D. "Microarray having a chemical library of compounds". U.S. Pat. Appl. Publ. (2009), US 2009124517 A1 20090514.

## Invited Lectures

1. April 1988 - Southeast Missouri State University.
2. March 3, 1989 - Saint Louis University.
3. March 13, 1989 - University of Missouri at St. Louis.
4. June 21, 1989 - Monsanto Central Research.
5. May 6-11th, 1990 - M.M. Baizer Memorial Symposium on Synthetic Organic Electrochemistry with Emphasis on Biomass Materials. Held in conjunction with the 177th Meeting of The Electrochemical Society, Montreal, Canada.
6. December 5, 1990 - Southern Illinois University at Edwardsville.
7. April 27, 1991 - Missouri Organic Chemistry Day.
8. May 17, 1991 - University of California, Santa Barbara.
9. May 20, 1991 - University of California, Los Angeles.
10. May 21, 1991 - University of California, Davis.
11. May 23, 1991 - San Diego State University.
12. May 24, 1991 - University of California, Riverside.
13. October 1, 1991 - Berlex Laboratories.
14. October 7, 1991 - University of Pennsylvania.
15. May 27, 1992 - University of Utah.
16. May 28, 1992 - Utah State University.
17. July 20-26, 1992 - Natural Products Gordon Conference. "Anodic Electrochemistry: A Useful Tool for Organic Synthesis?"
18. Sept. 9, 1992 - University of Illinois at Urbana-Champaign.
19. Oct. 8, 1992 - University of Kansas.
20. Oct. 9, 1992 - University of Nebraska.

21. Oct. 15, 1992 - Marion Merrell Dow.
22. Dec. 18, 1992 - Parke Davis.
23. Feb. 4, 1993 - University of Wisconsin-Madison.
24. Feb. 16, 1993 - Northeast Missouri State University.
25. March 8-14, 1993 - Keystone Symposium on Prospects and Progress in Drug Design Based on Peptides and Proteins.
26. May 16-21, 1993 - Division of Organic and Biological Electrochemistry Symposium on The Role of Electrochemistry in Organic Synthesis and Organometallic Chemistry. Held in conjunction with the 183rd Meeting of The Electrochemical Society, Inc., Honolulu, Hawaii.
27. October 18, 1993 - Bristol Meyers Squibb.
28. November 2, 1993 - SmithKline Beecham.
29. Feb. 10, 1994 - SIU - Carbondale. "Anodic Amide Oxidations"
30. Feb. 11, 1994 - SIU - Carbondale. "Intramolecular Anodic Olefin Coupling Reactions"
31. May 22-27, 1994 - Division of Organic and Biological Electrochemistry Symposium in Honor of Professor T. Shono. Held in conjunction with the 185th Meeting of The Electrochemical Society, Inc., San Francisco, Calif.
32. July 17-22, 1994 - Organic Reactions and Processes Gordon Conference.
33. Sept. 25, 1994 - Pre-symposium of the International Symposium on Electroorganic Synthesis, Okayama, JAPAN.
34. Oct. 1, 1994 - Post-symposium of the International Symposium on Electroorganic Synthesis, Osaka, JAPAN.
35. Oct. 27, 1994 - Texas A&M University.
36. Oct. 28, 1994 - University of Texas - Austin.
37. Nov. 10, 1994 - Ciba-Geigy Pharmaceuticals Division.
38. February 8, 1996 - Procter and Gamble Pharmaceuticals - Norwich New York.
39. February 28, 1996 - North Dakota State University.
40. March 1, 1996 - The University of North Dakota.
41. April 12, 1996 - Western Kentucky University
42. April 23, 1996 - Kyoto Institute of Technology
44. April 24, 1996 - Kyoto University
43. May 5, 1996 - Division of Organic and Biological Electrochemistry Symposium in Honor of Professor Henning Lund. Held in conjunction with the 189th Meeting of The Electrochemical Society, Inc., Los Angeles, Calif.
44. June 7, 1996 - Stereochemistry Gordon Conference. Short talk titled "Bicyclic Lactam Based TRH Analogs and the Importance of Bridgehead Stereochemistry."
45. October 17, 1996 - University of Connecticut.
46. October 18, 1996 - Wesleyan University, CT
47. November 15, 1996 - Austin Peay State University
48. March 7, 1997 - University of Iowa
49. May 7, 1997 - Division of Organic and Biological Electrochemistry on the "Fundamentals and Potential Applications of Electrochemical Synthesis. Held in conjunction with the 191st Meeting of the Electrochemical Society, Inc., Montreal, Canada.
50. September 27, 1997 - IS-EOS-'97 The Third International Symposium on Electroorganic Synthesis, Kurashiki, JAPAN, September 23-27, 1997.
51. October 10, 1997 - Sigma Chemical Company.
52. November 14, 1997 - Symposium on Peptides and Peptide Mimetics - Held in connection with the Fifth Chemical Congress of North America, Cancun, Mexico, November 11-15, 1997.
53. CombiMatrix Corporation. February 3, 1998.
54. February, 1998 - University of Memphis
55. April 17, 1998 - Plenary Lecturer: European Science Foundation Conference on "Organic Electrochemistry: Moving Towards Clean and Selective Synthesis". Toulon, France.
56. April 20, 1998 - University of Bonn

57. October 12, 1998 - Special Guest Lecturer: 12th International Forum on Electrolysis in the Chemical Industry.
58. October 30, 1998 - The University of Chicago
59. March 2, 1999 - University of Houston
60. March 3, 1999 - University of Texas - Medical Branch - Galveston, TX
61. March 5, 1999 - University of Texas - Health Science Center - San Antonio, TX
62. October 18 and 19th, 1999 - Two talks given in connection with a symposium entitled "New Concepts and Methodologies for Organic Electrochemistry." Division of Organic and Biological Electrochemistry on the "Fundamentals and Potential Applications of Electrochemical Synthesis. Held in conjunction with the Fall Meeting of the Electrochemical Society, Honolulu, Hawaii.
63. February 23, 2000 - Austin Peay State University
64. March 8, 2000 - Peking University
65. March 8, 2000 - Tsinghua University, Beijing China
66. March 22, 2000 - Monsanto/ Searle
67. September 17, 2000 – Tulane University, New Orleans LA
68. March 26, 2001. Division of Organic and Biological Electrochemistry Symposium in Memory of Professor Eberhard Steckhan – Held in conjunction with the 199<sup>th</sup> Meeting of the Electrochemical Society, Washington D. C.
69. Plenary Lecture at the 22<sup>nd</sup> Sandbjerg Meeting on Organic Electrochemistry – Sondenborg Denmark, June 15 – 18, 2001.
70. Plenary Lecture at the International Symposium on Integrated Synthesis (ISIS 2001) – Kyoto Japan, June 19 – 20, 2001.
71. Short talk at the Gordon Research Conference on Heterocycles – July 9, 2001.
72. Plenary Lecture at the 4<sup>th</sup> Peptido- and Proteinomimetics Symposium – Spa Belgium, Sept. 9-14, 2001.
73. November 8, 2001 – Trinity University, San Antonio TX.
74. February 28, 2002 – Shanghai Institute of Organic Chemistry
75. March 6, 2002 – Chinese Academy of Sciences – Beijing
76. April 11, 2002 – Bristol Meyers Squibb, New Brunswick N.J.
77. Plenary Lecture at the Workshop on Radical Ion Reactivity – Heignbrucken Germany, June 16 – 21, 2002.
78. Sept. 16, 2002 - Keynote Lecture at the Symposium on Organic Electrochemistry: Chemical Conversion by Electron Transfer – From Organometallics via Organic and Bioorganic Compounds to Redox Active Polymer Materials. Held in connection with the 53<sup>rd</sup> Meeting of the International Society of Electrochemistry – Dusseldorf , Germany, Sept. 16 – 20, 2002.
79. November 8, 2002 – University of Illinois – Chicago
80. May 12, 2003 – University of Pennsylvania
81. July 16, 2003 – Invited Speaker, Gordon Conference on Free Radical Reactions.
82. September 10, 2003 – Invited Lecturer for a symposium entitled "Synthetic Organic Electrochemistry". Held in connection with the 226<sup>th</sup> National Meeting of the American Chemical Society – New York, NY; September 7-11, 2003.
83. March 26, 2004 – Science education talk for the Webster Groves Rotary Club.
84. April 4, 2004 – Carthage College, MN
85. April 27, 2004 – CombiMatrix Corporation.
86. May 12, 2004 – Invited Lecturer for the Sixth International Manuel M. Baizer Award Symposium on Organic Electrochemistry – Held in conjunction with the 205<sup>th</sup> Meeting of the Electrochemical Society, San Antonio, TX.
87. May 15, 2004 – Invited Speaker for the Second Annual Ohio Valley Organic Chemistry Symposium, Wright State University, Dayton, Ohio.
88. October 5, 2004 – Invited Lecturer for a symposium entitled "New Developments in Synthetic and Mechanistic Organic Electrochemistry" – Held in conjunction with the 206<sup>th</sup> Meeting of the Electrochemical Society, Honolulu, Hawaii.

89. October 17, 2004 – Invited Lecturer for a symposium entitled “New Methods in Organic Synthesis” – Held in conjunction with the 36<sup>th</sup> Great Lakes Regional ACS Meeting, Peoria, Illinois
90. November 8, 2004 – Hendrix College., Conway AR
91. March 1, 2005 – University of California – Berkeley
92. March 11, 2005 – CombiMatrix Corporation
93. May 16, 2005 – Invited Lecturer for a symposium entitled “Prospective Trends in Synthetic and Mechanistic Organic Electrochemistry” – Held in conjunction with the 207<sup>th</sup> Meeting of the Electrochemical Society, Quebec City, Canada.
94. September 26, 2005 – Invited Lecturer for a symposium entitled “Molecular Electrochemistry” – held in conjunction with the 56<sup>th</sup> Annual Meeting of the International Society of Electrochemistry, Busan, Korea.
95. November 17, 2005 – Creighton University, Omaha Nebraska
96. November 18, 2005 – University of Nebraska – Omaha
97. January 21, 2006 – Indiana State University
98. February 15, 2006 – CombiMatrix Corporation
99. April 26, 2006 – Keynote Lecture for The 8<sup>th</sup> International Symposium on Organic Reactions, Kobe, Japan.
100. April 28, 2006 – School of Engineering – Kyoto University
101. May 8, 2006 – Invited Lecturer for a symposium entitled “Mechanistic Organic Electrochemistry Symposium in Honor of the 80<sup>th</sup> Birthday of Professor Petr Zuman” – Held in conjunction with the 209<sup>th</sup> Meeting of the Electrochemical Society, Denver, CO, USA.
102. June 19, 2006 – Okayama University Department of Applied Chemistry.
103. June 22, 2006 – Keynote Lecturer for the 30<sup>th</sup> Symposium on Organic Electron Transfer Chemistry – Tokyo Institute of Technology.
104. August 10, 2006 – Invited Lecturer – 12<sup>th</sup> Symposium on the Latest Trends in Organic Synthesis. St. Catherine, Canada
105. September 7, 2006 – University of Pittsburgh
106. September 15, 2006 – Southern Illinois University at Carbondale
107. October 5, 2006 – University of Arizona
108. October 21, 2006 – Invited Lecture for a symposium entitled “BioChip 2006” – Held in conjunction with the Southwest Regional ACS Meeting, Houston, TX, USA.
109. February 1, 2007 – Givaudan Flavors, Cincinnati, OH.
110. April 6, 2007 – Illinois Wesleyan University
111. May 7, 2007 – Invited Lecturer for a symposium entitled “Adding Complexity to Electrodes and Electrode Materials” – Held in conjunction with the 211<sup>th</sup> Meeting of the Electrochemical Society, Chicago, IL, USA.
112. September 10, 2007 – Invited Lecturer for a symposium entitled “Electrochemical Materials Science and Molecular Electrochemistry” – Held in conjunction with the 5<sup>8th</sup> Annual Meeting of the International Society of Electrochemistry, Banff, Canada.
113. October 17, 2007 – Texas State University
114. October 26, 2007 – Invited Speaker for a Symposium Honoring Professor R. Daniel Little. University of California – Santa Barbara
115. March 17, 2008 – CombiMatrix Corporation, Seattle WA
116. March 27, 2008 – University of Connecticut
117. March 28, 2008 – Wesleyan University – Connecticut
118. April 1, 2008 – UT Southwest Texas Medical Center – Dallas
119. April 10, 2008 – Bristol Meyers Squibb, New Brunswick, N.J.
120. July 21, 2008 – Invited Speaker, Natural Products Gordon Conference
121. October 12, 2008 – Invited Lecture on Microelectrode Arrays for a symposium entitled “New Frontiers of Synthetic and Mechanistic Organic Electrochemistry” held in conjunction with the 214<sup>th</sup> Meeting of the Electrochemical Society (PRIME – joint with the Electrochemical Society of Japan), Honolulu, Hawaii.

122. October 13, 2008 - Invited Lecturer on radical cation intermediates in synthesis for a symposium entitled "New Frontiers of Synthetic and Mechanistic Organic Electrochemistry" held in conjunction with the 214<sup>th</sup> Meeting of the Electrochemical Society (PRIME – joint with the Electrochemical Society of Japan), Honolulu, Hawaii.
123. November 7, 2008 – Pittsburgh State University, Pittsburgh KS
124. February 27, 2009 – University of Louisville
125. June 4, 2009 – University of Muenster, Germany
126. June 5, 2009 – DECHEMA, Frankfurt, Germany
127. June 7, 2009 – Keynote Address, ECHEMS 5 Meeting in Weingarten, Germany
128. September 4, 2009 – University of Virginia
129. October 8, 2009 – University of Vermont
130. March 2, 2010 – East China Normal University
131. March 5, 2010 – Xiamen University, Xiamen China
132. April 17, 2010 – Invited Lecture – Missouri Organic Chemistry Day
133. April 25, 2010 – Invited Lecture on Radical Cations in Synthesis presented in the Baizer Award Symposium held in conjunction with the 218<sup>th</sup> Meeting of the Electrochemical Society held in Vancouver, CANADA.
134. April 26, 2010 – Invited Lecture on Microelectrode Arrays presented in the Baizer Award Symposium held in conjunction with the 218<sup>th</sup> Meeting of the Electrochemical Society held in Vancouver, CANADA.
135. September 10, 2010 – Saint Louis University
136. September 30, 2010 - Keynote Lecture, "Molecular Electrochemistry – Methods, Models, Molecules, and Materials" to be held in conjunction with the 61<sup>st</sup> Annual Meeting of the International Society of Electrochemistry, Nice, FRANCE
137. December 2010 – Invited Lecturer for a symposium on "Green Electrochemistry" to be held in conjunction with Pacifichem 2010, Honolulu, HI.
138. May 1, 2011 – Invited Lecture on Radical Cation Intermediates presented at the 220<sup>th</sup> Meeting of the Electrochemical Society held in Montreal, CANADA.
139. June 14, 2011 – Syngenta Inc. Greeborough, NC.
140. September 9, 2011 – Invited Lecture on "New Frontiers in Electrochemistry" presented at the Potter's Lodge Meeting at Blue Mountain Lake, NY.
141. March 8, 2012 – Department of Chemistry, University of California – Santa Barbara.
142. September 14, 2012 – Department of Chemistry, Georgia State University
143. October 3, 2012 – Department of Chemistry, University of Washington
144. March 8, 2013 – Department of Chemistry Boston University
145. June 25, 2013 – Invited Lecture – 46<sup>th</sup> Heyrovsky Discussion, Trest Castle, Czech Republic
146. August 12, 2013 – Pfizer, St. Louis, MO
147. August 29, 2013 – Merck, Rahway, N.J.
148. October 3, 2013 – Kent State University
149. January 6, 2014 – Invited Lecture – Electrochemistry Gordon Conference
150. February 11, 2014 – University of Houston
151. March 31, 2014 – Institute of Cancer Research, Sutton Surrey UK
152. April 1, 2014 – University of Oxford
153. April 2, 2014 – University College London
154. April 3, 2014 – University of Cambridge
155. April 4, 2014 – UCB-Celltech, Slough Berkshire
156. May 12, 2014 – Invited Lecture on Radical Cation Intermediates presented at the Baizer Award Symposium, Orlando ECS Meeting.
157. May 13, 2014 – Invited Lecture on Microelectrode Arrays at the Baizer Award Symposium, Orlando ECS Meeting.
158. September 1, 2014 – Invited Lecture on Microelectrode Arrays presented at the 65<sup>th</sup> Annual Meeting of the International Society of Electrochemistry, Lausanne, Switzerland.
159. October 2, 2014 – Northern Illinois University

160. April 2, 2015 – Invited Speaker at the Society for Chemical Industry in London.
161. July 8, 2015 – Invited Lecture at the EPSuM Innovation Workshop for the Use of Electrochemistry in Industry – Columbus, OH
162. August 31, 2015 – Philipps Universität, Marburg, Germany
163. September 1, 2015 – Invited Lecture, GDCh-Wissenschaftsforum Chemie 2015, Dresden Germany.
164. September 3, 2015 – Invited Lecture, German-American Symposium on Electrosynthesis, Mainz, Germany
165. September 11, 2015 – University of Kentucky
166. December 17, 2015 – PacifiChem, Honolulu, HI. Symposium on Electrochemical Reactions and Mechanisms in Organic Chemistry. Talk on Olefin Coupling Reactions.
167. December 17, 2015 – PacifiChem, Honolulu, HI. Symposium on Electrochemical Reactions and Mechanisms in Organic Chemistry. Talk on Microelectrode Arrays.
168. December 17, 2015 – PacifiChem, Honolulu, HI. Symposium on Green Chemistry. Talk on the processing of lignin into synthetic building blocks.
169. January 21, 2016 – University of South Florida
170. January 29, 2016 – University of South Carolina
171. February 2, 2016 – University of Wisconsin, Madison
172. February 24, 2016 - Xiamen University, Xiamen China
173. April 30, 2016 – Invited Lecture, ISOR-12 and GJSE-6 joint meeting in Kyoto Japan
174. May 30, 2016 – Award Address, Baizer Award Symposium, Electrochemical Society Meeting, San Diego, CA.
175. October 2, 2016 – PRiME meeting of the Electrochemical Society, Honolulu HI. Competitions Studies and the Use of Mechanistic Insight to Overcome Synthetic Barriers.
176. October, 3, 2016 – PRiME meeting of the Electrochemical Society, Honolulu, HI. Microelectrode Arrays and the Move Toward Practical Applications
177. October 31, 2016 – University of Missouri – Columbia. “From Molecules to Microelectrode Arrays to Lignin Conversion: Electrochemistry as a Tool for Synthesis.”
178. November 30, 2016 – Fall 2016 Meeting of the Materials Research Society, Invited talk. Organic Electrochemistry and Addressable Libraries: Developing Site-Selective Synthetic Methods for the Construction of Complex Molecular Surfaces.”
179. April 2, 2017 – Invited talk at the 253<sup>rd</sup> ACS National Meeting, San Francisco, CA. “Paired Electrochemical Reactions: A Lesson Learned from Microelectrode Arrays and the On-Site Generation of Chemical Reagents.”
180. May 30, 2017 – Invited talk presented at the New Orleans Meeting of the Electrochemical Society. “Developng New Synthetic Methods for the Construction of Complex Molecules and Complex Molecular Surfaces.”
181. August 3, 2017 – Invited talk presented at the Natural Products and Bioactive Compounds Gordon Research Conference. “Using Priciples in Physical Organic Chemistry to Guide Electrochemical Solutions to Modern Synthetic Challenges.”
182. August 31, 2017 – Keynote Lecture at the International Society of Electrochemistry Meeting, Providence, RI. “From Complex Molecules to Controlling Molecular Surfaces: Electrochemistry as a Tool for Synthesis.”
183. September 15, 2017 – Invited talk GJSE17 Meeting in Mainz, Germany. “Using the Interplay between Organic Synthesis and Electrochemistry to Control Molecular Surfaces.”
184. September 17, 2017 – Short Course Lecture, Mainz Germany. “Following the Lead of R.B. Woodward and M.M. Baizer: Using Concepts in Physical Organic Chemistry to Shape the Course of Electrochemical Reactions.”
185. October 12, 2017 – Cornell University
186. April 3, 2018 – Olivet Nazarene University
187. May 14, 2018 – Invited talk presented at the Seattle Meeting of the Electrochemical Society in the Baizer Memorial Symposium. “Microelectrode Arrays: Moving Toward the Synthesis of More Complex Surfaces”.

188. May 16, 2018 – Invited talk presented at the Seattle Meeting of the Electrochemical Society in a session on Electron-Transfer Reactions in Biological and Organic Chemistry. “Using the Complementarity of Electrochemistry and Photoelectron Transfer to Probe and Develop the Chemistry of Radical Cations”.
189. June 4, 2018 – Plenary Lecture at the XVII Joint Meeting of the French and American Chemical Societies. “From Complex Molecules to Controlling Molecular Surfaces: Electrochemistry as a Tool for Synthesis”.
190. October 17, 2018 – Research Seminar at Bristol Myers Squibb.
191. October 19, 2018 – University of Nebraska – Lincoln.
192. November 29, 2018 – Invited Speaker for the Greater Indianapolis Organic Seminar Series (Dow Chemical, Lilly, and IUPUI). “From Molecules to Molecular Surfaces: Organic Electrochemistry as a Tool for Synthesis.”
193. March 15, 2019 – University of Cincinnati.
194. April 9, 2019 – Invited Speaker at the Beilstein Symposium on Electrifying Organic Synthesis – Mainz, Germany. "From Molecules to Surfaces. Exploiting the Interplay Between Organic Synthesis and Electrochemistry."
195. May 3, 2019 – Invited Speaker at the Great Lakes Regional Meeting of the ACS. Lisle, IL. "From Molecules to Molecular Surfaces: Electrochemistry as a Tool for Organic Synthesis."
196. June 16, 2019 – Tutorial on Organic Electrochemistry – 9<sup>th</sup> Pacific Symposium on Radical Chemistry.
197. June 17, 2019 – Invited Lecture – 9<sup>th</sup> Pacific Symposium on Radical Chemistry. "Organic Electrochemistry: Exploring the Chemistry of Reactive Radical Cation Intermediates".
198. August 2, 2019 – Lecture in the Heyrovsky Symposium at the 70<sup>th</sup> Annual Meeting of the International Society of Electrochemistry in Durban, South Africa. "Exploring the Interplay Between Organic Synthesis and Electrochemistry. Capitalizing on a Synergistic Relationship". (ISE 185517)
199. September 16, 2019 – Seminar, University of Arkansas.
200. October 3, 2019 – Seminar, Indiana University.
201. October 18, 2019 – Midwest Award Address – Wichita, KS
202. November 6, 2019 – Seminar, University of Delaware.
203. November 8, 2019 – Seminar, University of Missouri – St. Louis
204. November 18, 2019 – Chemical Science Roundtable Workshop, National Academy of Sciences. Invited Lecture.
205. December 6, 2019 – Seminar, Gustavus Adolphus University.

**Student Collaborators:** 8 postdoctoral, 51 Ph.D., 5 Masters, and 32 undergraduate students.

*Postdoctoral Students: (years in the group/ current position)*

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|--|---|
| Dr. Mohammad Marzabadi (1988-1990/ Research Scientist - Synaptic Pharmaceutical Corp.) | Dr. Wenhua Chu (1996 to 2000/ Washington University Medical School) |
| Dr. Rszyard Pacut (1990-1992/ Research Fellow - Agricultural Univ., Wroclaw)           | Dr. Jun Tian (2005-2007/ Pharmacore)                                |
| Dr. S. H. K. S. Reddy (1996 to 1999/ Research Fellow - University of Kansas)           | Dr. Tanabe Takamasa (2009-2010)                                     |
|  | Dr. Qingquan Lu (2018-2019: Assistant Professor Wuhan University)   |
|  | Dr. Yu Zhu (2018-present)   |
|  | Dr. Ruby Kruger (2019-present)                                      |

*Graduate Students: (year of graduation/ current position where applicable)*

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| Dr. Poh Lee Wong (1993/ MBA program at Washington University after initially taking a faculty position at the University of Singapore) | Dr. Luzviminda V. Tino-Wooldridge (1993/ Warner-Jenkins)           |
| Dr. Christine Hudson (1993/ Them-O-Disc)   | Dr. Dallas G. New (1994/ Faculty – University of Central Oklahoma) |
|  | Dr. Cathleen Hanau (1995/ Pfizer)                                  |

Dr. Yvette Fobian (1996/ Pfizer)  
Dr. Zerom Tesfai (1996/ Exelixis Pharmaceuticals)  
Dr. Dean Frey (1997/ Albany Molecular)  
Dr. Yunsong Tong (1998/ Abbott Labs)  
Dr. Robert Long (1998/ Associate Director Chemistry/ Lecturer Texas Tech.)  
Dr. Jill C. Simpson (1999/ Bayer)  
Dr. Angela Sutterer (2000/ Fleming Pharmaceuticals)  
Dr. Laura Matson-Beal (2001/ Faculty – Rogers State University)  
Dr. Bin Liu (2002/ Locus Pharmaceuticals)  
Dr. Wenhao Li (2002/ Millenium Pharmaceuticals Inc.)  
Dr. Shengquan Duan (2003/ Wyeth Pharmaceuticals)  
Dr. Yongmao Sun (2003/ Moffitt Cancer Center, Tampa, FL )  
Dr. John Mihelcic (2003/ Research Scientist)  
Dr. Haizhou Sun (2003/ Omm Scientific - Dallas)  
Dr. Yung-Tsung Huang (2004/ National University of Kaohsiung)  
Dr. Bradley Scates (2005/ Orbiter Research)  
Dr. Eden Tesfu (2006/ Bayer Crop Science)  
Dr. Jonathan Brandt (2007/ Covidian)  
Dr. David Kesselring (2008/ Cyanta )  
Dr. Ceng Chen (2008/ Boston College Mass Spec Facility Director)  
Dr. Honghui Wu (2008/ University of Science and Technology, Beijing State Key Laboratory for Advanced Metals and Materials)  
Dr. Feili Tang (2009/ Scientist, Allergan)  
Dr. Melissa Stuart (2010/ Free-lance science writer)  
Dr. Laura Anderson (2010/ Postdoc EPA)  
Dr. Hai-Chao Xu (2010/ Postdoc Yale)  
Dr. Libo Hu (2011/ Argonne National Lab )  
Dr. Guoxi Xu (2012/ Sigma-Aldrich)

Masters Degree Students:

Mr. Lawrence D. Rutledge (Research scientist – Owns his own company)  
Ms. Shari Keith (1989/ Pfizer)  
Mr. Scott L. Rothfus (1992/ Adhesive Compounds, Inc.)

Dr. Jennifer Bartels (2012/ University of Alabama – Birmingham, Director of Clinical Research efforts for Radiology)  
Dr. Alison Redden (2012/ Lecturer – Washington University)  
Dr. Bo Bi ( 2012/ Research Scientist – GenScript USA Inc.)  
Dr. John Campbell ( 2014/ Scientist – Glaxo Smith Kline)  
Dr. Jake Smith (2015/ Postdoc Seattle)  
Dr. Mathew Graaf (2015/ Scientist - AbbVie)  
Dr. Bichlien Nuygen (2015/ MicroSoft)  
Dr. Sakshi Uppal (2015/ Postoc/ University of Chicago)  
Dr. Robert Perkins (2016/ Postdoc Pfizer)  
Dr. Derek Rensing (2016/ Postdoc/ Washington University Med. School)  
Dr. Ruozho Feng (2018/ Postdoc Pacific Northwest National Lab)  
Dr. Louis Gonzalez (2019/ Analytical Chemist – St. Louis)  
Dr. Matthew Medcalf (2019/ Postdoc WUSTL Medicine)

Current Group:

Ms. Kendra White (expected Ph.D.; 2020)  
Ms. Nai-Hua Yeh (expected Ph.D.; 2020)  
Mr. Tiandi Wu (expected Ph.D.; 2021)  
Mr. Qiwei Jing (expected Ph.D.; 2022)  
Mr. Zachory Medcalf (expected Ph.D.; 2023)  
Mr. Albert Huang (expected Ph.D.; 2023)  
Dr. Yu Zhu (Postdoc from the Univ. of Florida)  
Dr. Ruby Krueger

Mr. Jeffrey Marx (1995/ Teacher - DeSmet High School, St. Louis)  
Ms. Sarah Wood (2007/ Research scientist – Pfizer)  
Mr. Weiqiang Li (2016/ Graduate School – Computer Science)

Undergraduate Research Students: (years in the group, degree, 1<sup>st</sup>-position after graduation if known)

Barry L. Parnas (1987-1988, B.A. 1988, Scientist at Monsanto)  
Sharif Tarazi (1988-1989, B.A. 1989, Univ. of Missouri Medical School)  
Po Wei Wang (1988-1989 - B.A. 1990, Medical School)  
Robert T. Geist (1988-1989 - B.A. 1991, Research Asst. Washington Univ. Medical School)  
John Leitzel (1989-1990, B.A. 1991, Ph.D. Program – University of Chicago)  
Melissa L. Reilly (1990-1991, B.A. 1991, Ph.D. Program – Indiana Univ.)  
David Ripin (1990-1992, B.A. 1992, Ph.D. Program - Harvard)  
Theresa Hughes (1992-1993, B.A. 1993)  
Nicholas Wu (1994-1997, B.A. 1997, Medical School)  
Hillary Highfield (1995-1997, B.A. 1997, New York City - dancer)  
A. Nicole Splinter (1996-1998, B.A. 1998, Medical School UCSF)  
Elizabeth Fry (1998 – 2000, B. A. 2000)  
Lei Lei (2002-2003, B.A. 2004, Medical School)  
Joel Silverstone (2002-2004, B.A. 2004, Research Chemist - Industry)  
Michelle Monnens (2002-2004, B.A. 2004, Ph.D. program University of Wisconsin)  
Connor Martin (2004- 2005, B. A. 2005, Ph.D. program UC Irvine)  
Rebecca Keller (2004-2005, B. A. 2005, Ph.D. program Colorado State Univ.)  
Keith Ferguson (2005-2006, Class of 2008, Medical School SIU-C)  
Katie Hudson (summer 2006 – B.A. 2007 Ohio State University)  
Vivek Kilkarni (2007-2008 – Medical School)  
Megan Fieser (2008 – 2010, Ph.D. Program, UC Irvine)  
Matthew Skinner (2010-2011/ Ph.D. Program U. Mass. Amherst)  
Yifan Meng (2010 – B.A. 2012)  
Melanie Huttner (2010-2012 – B.A. 2012/ Ph.D. Program Stanford)  
Nathaniel Hausfater (2012 – B.A. 2013)  
Elizabeth Morrow (2012 summer intern)  
Michael Li (2014/ Medical school)  
Jeffery Kallen (2014/ lab instructor WUSTL)  
Adam Metz (2015, PhD. Program Vanderbilt)  
Jacob DeHovitz (2015, lab instructor WUSTL)  
Gracie Zhang (2014-2017, Ph.D. program CalTech)  
Jacob DeHovitz (2018)  
Peter Rosston (2017-2019)  
Jacob Schafer (2018-2019)